

CITY OF BETHEL

City Council Meeting Agenda, June 30, 2022 – 6:30 PM

Website: <https://www.cityofbethel.org/council>

Location: Council Chambers, City Hall, 300 Chief Eddie Hoffman Highway, Bethel

Council Members: Mayor Mark Springer, Vice-Mayor Conrad McCormick, Michelle DeWitt,
Perry Barr, Rose Henderson, Eric Whitney, Beth Hessler

Zoom Meeting Link: <https://us06web.zoom.us/j/4888456188?pwd=bkN1dGl4MHpGZ1kwOUVYWU5kd0xhZz09>

Zoom Meeting ID: 488 845 6188

Zoom Meeting Passcode: 13871

Zoom Meeting Conference Line Numbers: 833 548 0276 US Toll-free

833 548 0282 US Toll-free

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888 475 4499 US Toll-free



1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. PEOPLE TO BE HEARD – FIVE MINUTES PER PERSON

5. APPROVAL OF AGENDA

6. UNFINISHED BUSINESS

7. NEW BUSINESS

- 7.1. *Introduction of Budget Ordinance 22-25: Establishing The Fiscal Year 2023 Capital Improvement Plan Budget (City Manager Williams)

8. ADJOURNMENT

Posted June 24, 2022 at AC Co., Swanson's, City Hall, and the Post Office.

Kevin Morgan, Deputy City Clerk

City Clerk's Office Contact Information: Email cityclerk@cityofbethel.net Phone 907-545-4120

Items noted with an asterisk (*) are consent agenda items, unless removed from the consent agenda they are approved upon the approval of the agenda. Ordinances introduced at this meeting may be set for public hearing at the next regular meeting.

The Council may by unanimous consent, after 12:00 AM Fix the Time to Which To Adjourn until the following day at 6:30 PM

Introduced by: City Manager Peter Williams
Introduction Date: June 30, 2022
Public Hearing: July 12, 2022
Action:
Vote:

CITY OF BETHEL, ALASKA
ORDINANCE # 22-25

**AN ORDINANCE ESTABLISHING A CITY OF BETHEL BUDGET FOR FISCAL YEAR 2023
BEGINNING JULY 1, 2022 ENDING JUNE 30, 2023**

Be it Ordained by the City Council of Bethel as follows:

Section 1. That Ordinance, a non-code ordinance, establishes a City of Bethel Capital Improvement Budget for fiscal year 2023.

Section 2. That money shall be appropriate from the City's funds for capital expenditures.

GENERAL FUND

General Fund - Capital Expenditures

IT Services	\$	160,000	
Fire	\$	505,248	
Police	\$	826,400	
Streets and Roads	\$	1,575,000	
Property Maintenance	\$	300,000	
TOTAL GENERAL FUND - CAPITAL EXPENDITURES	\$	3,366,648	\$ -

Capital Improvement- Enterprise Funds

Yukon-Kuskokwim Aquatic Health & Safety Center	\$	58,000	
Solid Waste	\$	530,000	
Water & Sewer	\$	775,390	
Municipal Docks	\$	1,626,452	
Bethel Transit	\$	86,000	
American Rescue Plan Act (Grant Funding)	\$	1,500,000	
TOTAL CAPITAL PROJECTS- Enterprise Funds	\$	4,575,842	\$ -

Section 3. That the FY 2023 Capital Improvement Budget is adopted for a period for one (1) year.

ENACTED THIS 12 DAY OF JULY 2022, BY A VOTE OF ___ IN FAVOR AND ___ OPPOSED.

Mark Springer, Mayor

ATTEST:

Lori Strickler, City Clerk



FY 2023

CAPITAL IMPROVMENT PLAN

July 1, 2022 - June 30, 2023



CITY OF BETHEL

P.O. Box 1388 Bethel, Alaska 99559

Phone 907-543-2047

Fax 907-543-1393

April 1, 2022

Bethel City Council
P.O. Box 1388
Bethel, Alaska 99559

Dear, Mayor Springer, Vice Mayor McCormick, and Council Members:

The intent of this plan is to provide an overview of the capital improvements that would be best suit this organization for the 2023 fiscal year. Externally, if fulfilled the capital improvement would empower our employees to improve services provided to the citizens of Bethel. Internally, I think that these improvements will boost employee morale and maybe even be attract future personnel.

Though the FY22 General Fund Revenues have significantly exceeded our Expenditures, due in part to strong sales tax revenues. In my opinion, the greatest challenge within the Capital Improvement Plan is the expenses that are proposed from the Municipal Dock Fund. The purpose of this Capital Improvement Plan is to guide us all in deciding what is needed and what can be funded in the 2023 Fiscal Year.

This Capital Improvement Plan is structured the following:

- Buildings & Infrastructure Inventory;
- Rolling Stock;
- Services
- Continued Capital Improvements (Carryovers); and then
- Proposed Capital Improvements

The remainder of this letter will provide a brief context for some the peripheral components that are included in the Capital Improvement Plan, beginning with the inventory of the City's buildings and infrastructure, road improvements, rolling stock, and then services.

Buildings and Infrastructure – General Fund

Public Work's Building

We used the insured value for reference to determine the value. The cost of a new structure was reported to be between seven hundred and a thousand dollars per sq. ft. the public Work's building is in poor shape. We have a structural report that determined to repair what we have, would cost about \$7,000,000. The problem with rehabbing the

building is that it would not add floor space needed for all our Water and Sewer Trucks. A new building would cost approximately over \$25,000,000.

City Hall

We have finished remodeling City Hall, which needed some repairs and improvements.

Misc.

There are a few buildings on the list that we do not own or does not exist, but the information that this Capital Improvement Project Plan provides may prove to be useful.

Road Improvements – General Fund

Not all the roads that the city is responsible for is on this list. The roads that are listed are the ones that are most frequently traveled upon. The gravel that we use last about five years depending on how often they are traveled on. Erosion can be a big factor when determining how often a road is resurfaced. This year we are requesting \$600,000 for the Streets & Roads Department.

Rolling Stock

The proposed Capital Expenditures list is separated between the Enterprise Funds and General Funds. This list includes light-duty, pickup trucks, and heavy-duty equipment. Heavy duty equipment has a vast range of what it could be. Last year, we were fortunate to purchase a shredder to prolong the life of the landfill, other expenses could be graders, water trucks, and other specialized vehicles such as a contractor. Almost all the equipment is factory built and can take a significant amount of time between the date of purchase and its arrival to Bethel.

The list regarding the *General Fund* expenditures may be difficult to prioritize due to the funds available. Most of the items are one-time purchases that will not need to be funded again for several years, which can give the fund time to replenish those expenses. We do need the gravel for the roads.

Services

The *Comprehensive Plan* is an Organizational Goal that will need funding if we want to complete that. The *Connectivity* service is a big concern if we continue as is. In the past, departments have experienced what it is like not to be able to use the organization's network due to the number of employees using it at the same time. Documenting ownership and boundaries of the roads will become important as we improve the roads.

The idea behind this plan was to discuss the choices we have and determine what we feel is important to fund.

Thank you,

Peter A. Williams

Peter A. Williams

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Yukon-Kuskokwim Health & Safety Aquatic Training Center Expansion Study 82

Caterpillar CS56B Documentation 97

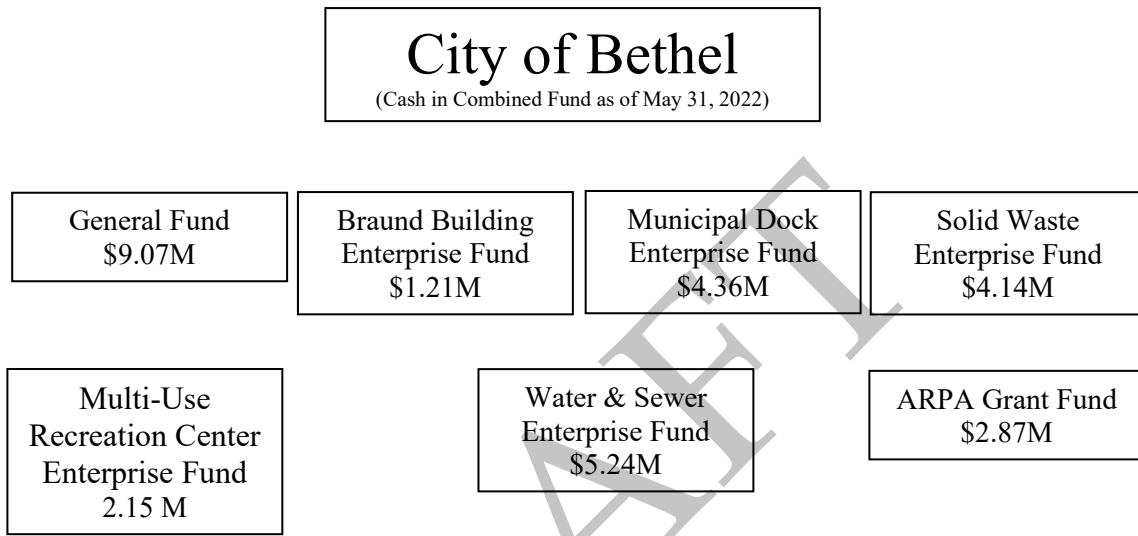
Caterpillar Hydraulic Excavator Documentation 103

Retention Pond Documentation 161

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City of Bethel Visual Fund Summary

The following is a visual representation of the City of Bethel's fund balances. The city of Bethel has the following funds: General Fund, Braund Building Enterprise Fund, Public Transit Enterprise Fund, Municipal Dock Enterprise Fund, Solid Waste Enterprise Fund, Multi-Use Recreation Center Enterprise Fund, Water and Sewer Enterprise Fund, and the American Rescue Plan Act (ARPA) Grant Fund.



The way we measure the Public Transportation Fund is an enterprise fund; however, little bit different from the other funds because it is paid for in its entirety via grants. For this Fund, we focus on reporting expenses, and they are as follows:

Public Transportation Fund As of May 31, 2022, costs for services and personnel totaled to \$735,667



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Buildings & Infrastructure Asset Inventory

BUILDINGS & INFRASTRUCTURE ASSET INVENTORY

Building Description	Physical Location	Year Built	Sq. Ft.	APEI Building Value	& Other Structures	Replacement Cost
Fire Station	320 State Hwy	1982	9912	\$6,106,300		\$8,425,200
Float System Handwalls (8)	Boat Harbor	2004	3600		\$400,000	\$3,060,000
Ridgecrest Well	900 Ridgecrest	1999	NA			\$350,000
Housing Lift Station	133 Akakeek St.	1979	86	\$86		\$73,100
Kilbuck Lift Station	5th & Main St.	1994	86	\$86		\$73,100
Ridgecrest Water Tank 423,000 gal.	900 Ridgecrest	2000	2124	\$2,124	\$2,881,830	\$1,805,400
Water Tank 60,000 gal.	204 State Hwy	1980	200	\$200	\$60,000	\$170,000
Water Treatment	900 Ridgecrest	1970	3245	\$3,245		\$2,758,250
Water Treatment Facility	235 Akiak St.	2001	4600	\$4,600		\$3,910,000
Bus Barn	503 State Hwy	1980	1000	\$1,000		\$850,000
City Hall	300 State Hwy	1976	7384	\$7,384		\$6,276,400
Youth Center	519 Mission Drive	1982	3929	\$3,929		\$3,339,650
Utilities Maintenance Shop	1290 Ridgecrest	1983	1700	\$1,700		\$1,445,000
Public Works Building	1155 Ridgecrest	1983	35040	\$35,040		\$29,784,000
Recycle Building	1270 Ridgecrest	2000	2800	\$2,800		\$2,380,000
Generator	308 State Hwy	2007	160	\$160		\$136,000
Dog Pound	1125 Ridgecrest	1986	185	\$185		\$157,250
Public Works Building Generator	1155 Ridgecrest	1970s	160	\$160	\$5,000	\$136,000
Fire Dept./Training	1157 Ridgecrest	1981	98	\$98		\$83,300
Ridgecrest Lift Station	832A Ridgecrest	2004	624	\$624	\$1,589,010	\$530,400
Landfill Building	1300 Ridgecrest	2013	240	\$240		\$204,000
Law Center (Remodeled)	204 State Hwy	2000	28820	\$28,820		\$24,497,000
Quonset Building Warehouse	400 Stand Oil Rd.	1972	5200	\$5,200		\$4,420,000
Water Tank 500,000 Gallons	235 Akiak St.	2006	3236	\$3,236	\$2,853,300	\$2,750,600
Police Department Building #1	157 Salmonberry	2013	7884	\$7,884		\$6,701,400
Police Department Building #2	157 Salmonberry	2013	4320	\$4,320		\$3,672,000
Wind Turbine at Fitness Ctr.	267 Akiachak St.	2014	NA		\$1,333,800	N/A
Transit Building	370A Fourth Ave.	1978	2800	\$2,800		\$2,380,000
Storage/Shop Warehouse	251 East Ave.	1987	1800	\$1,800		\$1,530,000
YK Fitness Center	267 Akiachak St.	2014	23164	\$23,164		\$19,689,400
(Q-2) Lift Station	2400 State Hwy	2017	884	\$884		\$751,400
Port Operations Building	919 Front St.	2017	1900	\$1,900		\$1,615,000
Utility Main. Bldg. & Attached Shop	311 Fourth Ave.	Late 1970s	1620	\$1,620		\$137,000
Warehouse	310 Fourth Ave.	1985	2000	\$2,000		\$1,700,000
Warehouse	City Dock	Late 1970s	4800	\$4,800		\$4,080,000



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Rolling Stock Asset Inventory

GENERAL FUND EQUIPMENT & LIGHT DUTY ROLLING STOCK ASSET INVENTORY

GENERAL FUND EQUIPMENT ROLLING STOCK

GL Code	Department	Year	Make	Model	Value
100-60	Fire Department	2005	Honda	TFX-650 4X4 Generator	\$5,000
General Fund Equipment Rolling Stock Sub-Total					\$5,000

GENERAL FUND LIGHT DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
100-60	Fire Department	1999	Ford	F-450	\$197,000
100-60	Fire Department	1999	Ford	F-450	\$197,000
100-60	Fire Department	2017	Dodge	RAM 4500 HD Ambulance	\$214,834
100-61	Police Department	2006	Ford	F-150	\$21,547
100-61	Police Department	2007	Ford	Expedition	\$8,500
100-61	Police Department	2007	Ford	Expedition	\$0
100-61	Police Department	2009	Dodge	RAM 1500	\$23,976
100-61	Police Department	2013	Ford	Explorer	\$20,000
100-61	Police Department	2015	Ford	F-150	\$40,039
100-61	Police Department	2017	Ford	F-250	\$33,009
100-61	Police Department	2017	Ford	Expedition	\$42,329
100-61	Police Department	2017	Ford	Expedition	\$41,206
100-61	Police Department	2019	Ford	Expedition	\$96,872
100-61	Police Department	2019	Ford	Expedition	\$43,764
100-61	Police Department	2019	Ford	Expedition	\$96,872
100-61	Police Department	2021	Ford	Expedition	\$43,189
100-65	Public Works	2001	Ford	Excursion XLT	\$18,000
100-65	Public Works	2003	Ford	Ranger	\$0
100-65	Public Works	2012	Ford	F-150	\$25,725
100-65	Public Works	2012	Ford	F-150	\$25,725
100-65	Public Works	2006	GMC	Sierra 2500	\$0
100-66	Streets & Roads	2012	Ford	F-250	\$20,703
100-66	Streets & Roads	2012	Ford	F-250	\$20,703
100-70	Property Maintenance	2013	Chevrolet	Silverado 2500	\$20,000
General Fund Light Duty Rolling Stock Sub-Total					\$1,250,993

ENTERPRISE FUNDS EQUIPMENT & LIGHT DUTY ROLLING STOCK ASSET INVENTORY

MUNICIPAL DOCK LIGHT DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
520-50	Municipal Dock	1997	Ford	Louisville	\$117,000
520-50	Municipal Dock	2001	Ford	F-250	\$13,000
520-50	Municipal Dock	2006	GMC	Sierra	\$0
520-50	Municipal Dock	2007	GMC	Sierra	\$7,000
520-50	Municipal Dock	2013	Ford	F-150	\$17,500
520-50	Municipal Dock	2021	Ford	F-350	\$60,238
Municipal Dock Fund Light Duty Rolling Stock Sub-Total					\$214,738

SOLID WASTE LIGHT DUTY ROLLING STOCKS

500-71	Landfill	2020	Ford	F-250	\$38,342
Solid Waste Fund Light Duty Rolling Stock Sub-Total					\$38,342

WATER & SEWER UTILITY FUND LIGHT DUTY ROLLING STOCKS

510-81	Water/Sewer	2020	Ford	F-250	\$38,342
Water & Sewer Utility Fund Light Duty Rolling Stock Sub-Total					\$38,342

Enterprise Funds Total Equipment & Light Duty Rolling Stocks					\$291,422
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GENERAL FUND HEAVY DUTY ROLLING STOCK ASSET INVENTORY

FIRE DEPARTMENT HEAVY DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
100-60	Fire Department	2017	Ascendant 107	Pierce	\$879,000
100-60	Fire Department	2022	Hughes Fire Equip	Fire Apparatus Class A Pumper	\$759,647
Fire Department Heavy Duty Rolling Stock Sub-Total					\$759,647

STREETS & ROADS HEAVY DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
100-66	Streets & Roads	1984	Caterpillar	140-G Grader	\$75,000
100-66	Streets & Roads	1989	International	SD100-D Compactor	\$35,000
100-66	Streets & Roads	1991	Peterbuilt	Dump Truck	\$65,000
100-66	Streets & Roads	1991	International	Flatbed Boom Truck	\$23,125
100-66	Streets & Roads	1992	Caterpillar	966-F Loader	\$80,000
100-66	Streets & Roads	1992	Caterpillar	D3-C Dozer	\$60,000
100-66	Streets & Roads	1992	Caterpillar	D8-N Dozer	\$240,000
100-66	Streets & Roads	1996	Caterpillar	953-B Grader	\$100,000
100-66	Streets & Roads	1999	John Deere	450-H Tractor	\$60,000
100-66	Streets & Roads	2001	Caterpillar	950-G Loader	\$150,000
100-66	Streets & Roads	2004	Caterpillar	163-H Grader	\$200,000
100-66	Streets & Roads	2006	International	7400 Dump Truck	\$60,000
100-66	Streets & Roads	2006	International	7400 SBA 6X4 Dump Truck	\$60,000
100-66	Streets & Roads	2009	Caterpillar	160-M AWD Grader	\$240,000
100-66	Streets & Roads	2012	Caterpillar	324-E Excavator	\$240,000
100-66	Streets & Roads	2014	International	WorkStar 7400 Sander	\$136,610
100-66	Streets & Roads	2014	International	Workstar 7400	\$110,000
100-66	Streets & Roads	2019	Caterpillar	972-M Loader	\$381,218
100-66	Streets & Roads	2019	Mack	Granite Watering Truck	\$226,832
100-66	Streets & Roads	2020	Caterpillar	160 Grader	\$460,046
100-66	Streets & Roads	2022	Kenworth	Dump Truck	\$176,291
100-66	Streets & Roads	2022	Kenworth	Dump Truck	\$176,291
Streets & Roads Heavy Duty Rolling Stock Sub-Total					\$3,355,413

PUBLIC WORKS HEAVY DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
100-70	Public Works	2013	John Deere	3320 Compact Utility Pack	\$44,000
Public Works Heavy Duty Rolling Stock Sub-Total					\$44,000
Total Heavy Duty Rolling Stocks for General Fund					\$4,159,060

ENTERPRISE FUNDS HEAVY DUTY ROLLING STOCK ASSET INVENTORY

SOLID WASTE HEAVY DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
500-71	Landfill	2004	Caterpillar	816 F Compactor	\$282,574
500-71	Landfill	2010	Mack	CXU513 Semi Truck	\$32,000
500-71	Landfill	2013	Mack	600 MRU Garbage Truck	\$223,580
500-71	Landfill	2018	Mack	600 MRU Garbage Truck	\$307,969
500-71	Landfill	2019	Mack	600 MRU Garbage Truck	\$340,000
500-71	Landfill	2019	Caterpillar	950M Front End Loader 265534	\$265,534
500-71	Landfill		Hammel	VB 950 DK Shredder	\$789,900
Solid Waste Heavy Duty Rolling Stock Sub-Total					\$1,451,657

WATER & SEWER HEAVY DUTY ROLLING STOCKS

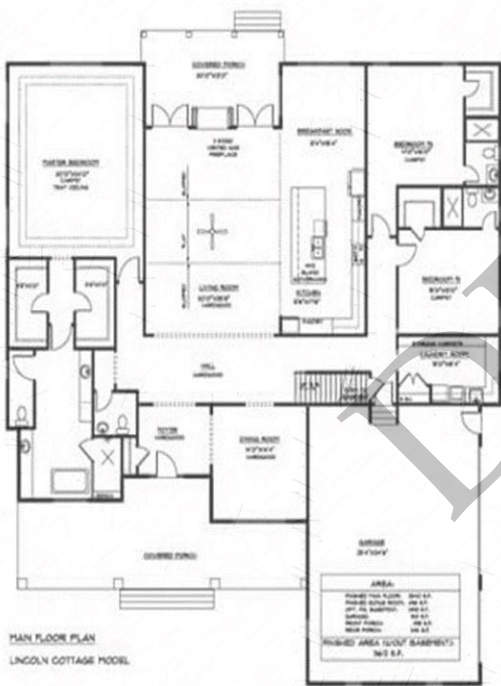
GL Code	Department	Year	Make	Model	Value
510-81	Hauled Water	2018	Mack	GU-713	\$245,000
510-81	Hauled Water	2019	Kenworth	T4 Series	\$266,232
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-85	Hauled Sewer	2017	Mack	GU-713	\$245,000
510-85	Hauled Sewer	2017	Mack	GU-713	\$245,000
510-85	Hauled Sewer	2019	Kenworth	T4 Series	\$179,202
510-85	Hauled Sewer	2019	Kenworth	T4 Series	\$179,202
510-85	Hauled Sewer	2019	Kenworth	T4 Series	\$179,202
510-85	Hauled Sewer	2019	Kenworth	T4 Series	\$179,202
510-85	Hauled Sewer	2019	Kenworth	T4 Series	\$179,202
Water & Sewer Heavy Duty Rolling Stock Sub-Total					\$3,192,172

MUNICIPAL DOCKS HEAVY DUTY ROLLING STOCKS

GL Code	Department	Year	Make	Model	Value
520-50	Municipal Dock	1980	John Deere	350D Wide Track	\$20,000
520-50	Municipal Dock	1992	Caterpillar	950-E Loader	\$180,000
520-50	Municipal Dock	2006	Caterpillar	D-5 Loader	\$125,000
520-50	Municipal Dock	2019	Bobcat	Mini Excavator	\$83,812
520-50	Municipal Dock	2017	Caterpillar	950M Loader	\$400,000
520-50	Municipal Dock		Skytrack	Squirtboom Forklift	\$50,000
Municipal Docks Heavy Duty Rolling Stock Sub-Total					\$858,812

Total Heavy Duty Rolling Stocks for all Enterprise Funds

\$5,502,641



Continued Projects

‘Carryovers’

PRE-APPROVED CARRYOVERS

100	General Fund
400	Multi-Use Recreation Center Enterprise Fund
500	Solid Waste Enterprise Fund
510	Water & Sewer Utility Enterprise Fund
520	Municipal Dock Enterprise Fund
530	Braund Building Enterprise Fund

GENERAL FUND APPROVED CARRYOVERS (FUND 100)

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
100-53-9693	Finance Department	Kiosk Annual Fees	20,000	20,000	In-Progress
100-54-9694	Planning Department	Comprehensive Plan	150,000	147,663	In-Progress
100-54-9695	Planning Department	Road Ownership Determination	40,000	40,000	In-Progress
100-55-9694	Information Technology	Server Room Air Conditioner	10,000	10,000	In-Progress
100-55-9695	Information Technology	Building Mapping/Floor Plans	40,000	27,603	Complete
100-55-9696	Information Technology	Air Conditioner for Servers	50,000	50,000	In-Progress
100-60-6890	Fire Department	Ladder Truck Lease Shared Line Item Title 'Capital Expenditures'	150,000	197,191	In-Progress
100-60-9697	Fire Department	Ford Expedition Command Vehicle	65,000	7,974	Complete
100-61-6891	Police Department	Vehicle Shared Line Item Title, 'Vehicles'	56,500	123,378	In-Progress
100-61-6891	Police Department	Ford Explorer Shared Line Item Title, 'Vehicles'	65,000	123,378	In-Progress
100-65-6893	Administration	City Shop Floor	40,000	40,000	Complete
100-65-6335	Public Works	Community Wide Piped Water/Sewer	173,785	173,785	In-Progress
100-66-9694	Streets & Roads	Caterpillar 420 Backhoe	170,413	170,413	In-Progress
100-66-9702	Streets & Roads	Installation of 36" Culvert	163,710	27,073	In-Progress
100-66-9703	Streets & Roads	STIP Match for Gravel on Roads	1,095,004	1,095,004	In-Progress
100-66-9704	Streets & Roads	3 Kenworth Dump Trucks	546,873	186,380	In-Progress
100-66-9705	Streets & Roads	Caterpillar Shear	268,682	174,010	In-Progress
100-66-9705	Streets & Roads	Mulching Head Attachment	39,409	39,409	In-Progress
100-66-9706	Streets & Roads	Henje Hi-Gate	12,093	732	In-Progress
100-66-9705	Streets & Roads	972 Loader Snow Bucket	48,579	44,003	In-Progress
100-66-9708	Streets & Roads	Bus Barn Improvements	500,000	110,416	In-Progress
100-66-9772	Streets & Roads	Culverts 18"	15,000	6,884	In-Progress
100-70-6242	Property Maintenance	Boardwalk Lighting Project	43,373	43,373	In-Progress
100-70-9596	Property Maintenance	Fire Suppression & Inspection	20,000	7,313	In-Progress
100-70-9696	Property Maintenance	Two 3/4 Ton Pick Up Trucks	52,000	106,832	In-Progress
100-70-9697	Property Maintenance	City Hall Improvements	1,493,915	436,236	Complete
100-70-9698	Property Maintenance	Scissor Lift	18,138	18,138	In-Progress
100-70-9699	Property Maintenance	John Deere 5 Series	100,000	100,000	In-Progress
Total Carryover Expenditures			\$5,447,474	\$3,527,188	

**YUKON-KUSKOKWIM REGIONAL HEALTH & AQUATIC
SAFETY TRAINING CENTER CARRYOVERS
(FUND 400)**

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
400-50-9691	YKAHSC	Feasibility Study	75,000	21,928	In-Progress
400-50-9692	YKAHSC	Repairs	1,032,939	784,230	In-Progress
Total Carryover Expenditures			1,107,939	806,159	

**SOLID WASTE FUND CARRYOVERS
(FUND 500)**

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
500-70-9693	Hauled Refuse	Refuse Truck	425,000	285,850	Complete
500-70-9694	Hauled Refuse	Kenworth T440 Single Axle Rear Load	\$170,336	170,336	In-Progress
500-71-9695	Landfill	Hammel VB 950 DK Shredder	\$940,000	150,100	Complete
Total Carryover Expenditures			\$1,535,336	\$606,286	

WATER & SEWER ENTERPRISE FUND CARRYOVERS (FUND 510)

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
510-81-9695	Hauled Water	Fleet Management Software/ Tablets	75,000	75,000	In-Progress
510-81-9696	Hauled Water	Radio Base Station Upgrade	9,500	9,500	In-Progress
510-82-9691*	Piped Water	Water Main Extension/ Fill Port	74,905	(9,362)	In-Progress
510-83-9773	Bethel Heights Water Treatment Plant	Site Improvements-Capital	27,094	27,094	In-Progress
510-83-6890	Bethel Heights Water Treatment Plant	SCADA System	80,000	80,000	In-Progress
		Shared Line Item Title 'Capital Expenditures'			
510-84-6890	City-Sub Water Treatment Plant	SCADA System	80,000	96,500	In-Progress
		Shared Line Item Title 'Capital Expenditures'			
510-85-9693	Hauled Sewer	Fleet Management Software/ Tablets	75,000	75,000	In-Progress
510-85-9694	Hauled Sewer	Caterpillar Angle Broom	10,482	10,482	In-Progress
510-85-9696	Hauled Sewer	Radio Base Station Upgrade	9,500	9,500	In-Progress
510-86-6890	Piped Sewer	SCADA System	57,137	57,137	In-Progress
		Line Item Title 'Piped Sewer Capital'			
510-86-9693	Piped Sewer	Herman Nelson Heater	68,000	68,000	In-Progress
510-86-9694	Piped Sewer	3/4 Ton Pick-Up Truck	61,000	61,000	In-Progress
510-87-9692	Sewer Lagoon	Terramac RT9-T4 Marooka	299,465	299,465	In-Progress
Total Carryover Expenditures			\$927,083	\$859,316	

MUNICIPAL DOCK ENTERPRISE FUND CARRYOVERS (FUND 520)

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
520-50-6890	Municipal Dock	Hydro Seeder Line Item Titled 'Capital Expenditures'	30,000	30,000	In-Progress
520-50-6121*	Municipal Dock	Municipal Dock Gravel	\$160,000	3,133	In-Progress
520-50-9700	Municipal Dock	3/4 Ton Pick-Up Truck	\$65,000	4,762	Complete
520-50-9701	Municipal Dock	Drop Deck Trailer	\$26,069	13,931	In-Progress
Total Carryover Expenditures			\$281,069	\$51,826	

*As of FY23, the line-item Municipal Dock Gravel is no longer categorized as a Capital Expenditure

BETHEL TRANSIT SYSTEM ENTERPRISE FUND CARRYOVERS (FUND 560)

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
560-50-9691	Bethel Public Transit	Bus Shelters	23,505	23,505	In-Progress
560-50-9692	Bethel Public Transit	Pressure Washer	9,350	9,350	In-Progress
Total Carryover Expenditures			\$32,855	\$32,855	

BRAUND BUILDING ENTERPRISE FUND CARRYOVERS (FUND 530)

GL Code	Department	Description	Approved Carryovers	Balance Remaining	Status
530-55-9694	Leased Court Complex	Water Service for Fire Suppression in shared Line Item titled, 'Generator Repair'	300,000	241,685	In-Progress
530-55-9694	Leased Court Complex	Generator Repair for Fire Suppression	575,000	552,661	In-Progress
Total Carryover Expenditures			\$300,000	\$794,347	



Proposed Capital Expenditures

CITY OF BETHEL PROPOSED CAPITAL EXPENDITURES

100	General Fund
500	Solid Waste Enterprise Fund
510	Water & Sewer Utility Enterprise Fund
520	Municipal Dock Enterprise Fund
530	Braund Building Enterprise Fund
560	Bethel Transit System Enterprise Fund

**GENERAL FUND
PROPOSED CAPITAL EXPENDITURES
(FUND 100)**

GL Code	Department	Description	FY23 Proposed Budget
100-55	IT Department	Connectivity Services	\$100,000
		One Vehicle	\$60,000
	IT Department Sub-Total		\$160,000
100-60	Fire Department	Fire Training System	505,248
		Fire Department Sub-Total	505,248
	100-61	Police Department	Dog Pound
Property Lease			\$26,400
Police Department Sub-Total		\$826,400	
100-66	Streets & Roads Department	D3 Cat Dozer Model: LGP	\$175,000
		Cat Compactor Model	\$210,000
		Gravel for Road Improvement	\$600,000
		Culverts	\$100,000
		Guard Rails & Posts	\$100,000
		Simon Retention Pond	\$350,000
		Freight for Dump Trucks	\$40,000
		Streets& Roads Department Sub-Total	
	100-70	Property Maintenance Department	Rehabilitating Public Parks
Boardwalk Lighting Project			\$200,000
Property Maintenance Department Sub-Total		\$300,000	
General Fund Beginning Balance			\$9,076,056
General Fund Total Expenditures			\$3,366,648
General Fund Remaining Balance			\$5,709,408

**YUKON-KUSKOKWIM REGIONAL HEALTH & AQUATIC
SAFETY TRAINING CENTER
PROPOSED CAPITAL EXPENDITURES
(400)**

GL Code	Department	Description	Proposed Budget
400-50-9691	YKAHSC	Feasibility Study	\$58,000
YKAHSC Enterprise Fund Beginning Balance			\$2,156,392
Total Capital Expenditures			\$58,000
YKAHSC Remaining Balance			\$2,098,392

**SOLID WASTE ENTERPRISE
PROPOSED CAPITAL EXPENDITURES
(500)**

GL Code	Department	Description	Proposed Budget
500-71	Landfill	CAT Excavator Model	\$530,000
Solid Waste Enterprise Fund Beginning Balance			\$4,142,926
Total Capital Expenditures			\$530,000
Solid Waste Enterprise Fund Remaining Balance			\$3,612,926

WATER & SEWER UTILITY ENTERPRISE FUND **PROPOSED CAPITAL EXPENDITURES** **(510)**

GL Code	Department	Description	Proposed Budget
510-81	Hauled Water		
		Kenworth Water Truck	\$300,000
	Hauled Water Department Sub-Total		\$300,000
510-85	Hauled Sewer		
		Kenworth Sewer Truck	\$300,000
		Short Lived Assets	\$182,825
	Hauled Sewer Department Sub-Total		\$182,825
510-86	Piped Sewer		
		SCADA System	\$75,000
		Short Lived Assets	\$182,825
	Piped Sewer Department Sub-Total		\$257,825
510-87	Sewer Lagoon		
		Jetty Loan Principal & Interest	\$34,740
	Sewer Lagoon Department Sub-Total		\$34,740
	Water & Sewer Enterprise Fund Beginning Balance		\$5,240,343
	Total Water & Sewer Utility Fund Capital Expenditures		\$775,390
	Water & Sewer Fund Remaining Balance		\$4,464,953

**MUNICIPAL DOCK
PROPOSED CAPITAL EXPENDITURES
(FUND 520)**

GL Code	Department	Description	Proposed Budget
520-50	Municipal Dock	Road Watering Truck	\$200,000
520-55	Municipal Dock	Ford F-250	\$60,000
520-55	Municipal Dock	Ford F-250	\$60,000
520-55	Municipal Dock	CAT D-5	\$35,000
520-55	Municipal Dock	CAT TL1255	\$271,452
520-55	Small Boat Harbor	Floats	\$1,000,000
Municipal Dock Enterprise Fund Beginning Balance			\$4,362,092
Total Capital Expenditures			\$1,626,452
Municipal Dock Remaining Balance			\$2,735,640

BETHEL TRANSIT SYSTEM ENTERPRISE FUND (560)

GL Code	Department	Description	Proposed Budget
560-50	Bethel Transit System	New Bus	\$86,000
Total Capital Expenditures			\$86,000

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**AMERICAN RESCUE PLAN ACT (ARPA)
PROPOSED GRANT EXPENDITURES
(660)**

GL Code	Benefitting Department(s)	Description	Proposed Budget
660-70	City-Sub Water Treatment Facility	Chemical Building	\$1,500,000
ARPA Grant Beginning Balance			\$2,878,532
Total Capital Expenditures			\$1,500,000
ARPA Grant Remaining Balance			\$1,378,532

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Supplemental Documentation

EXPENDITURES ACCORDING TO FUND WITH SUPPLEMENTAL DOCUMENTATION

100	General Fund
400	Multi-Use Recreation Center Enterprise Fund
500	Solid Waste
510	Water & Sewer Utility Fund
520	Municipal Dock Fund
530	Braund Building Enterprise Fund

**Note: The following images are for illustrative purposes only, they are not, necessarily the exact item that will be purchased*

**GENERAL FUND
INFORMATION TECHNOLOGY SUPPLEMENTAL
DOCUMENTATION OVERVIEW
(100-55)**

GL Code	Department	Description	FY23 Proposed Budget
100-55	Information Technology	Connectivity Services	\$100,000
100-55	Information Technology	One Vehicles	\$60,000
Total Capital Expenditures			\$160,000
Beginning General Fund Balance			\$9,076,056
Ending General Fund Balance			\$8,916,056

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**GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(100-55)**

100-55 Connectivity Services - \$100,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Connectivity Services for \$100,000
Seconded By:		Designated Fund Balance (Account 100-10- 100) Before Purchase:
		\$9,076,056
		Designated Fund Balance (Account 10-39900) After Purchase:
		\$8,976,056
Vote on Motion:		

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-55)

100-55 Information Technology - One Vehicle \$60,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, One Vehicle for \$60,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$8,976,056
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$8,916,056
Vote on Motion:		

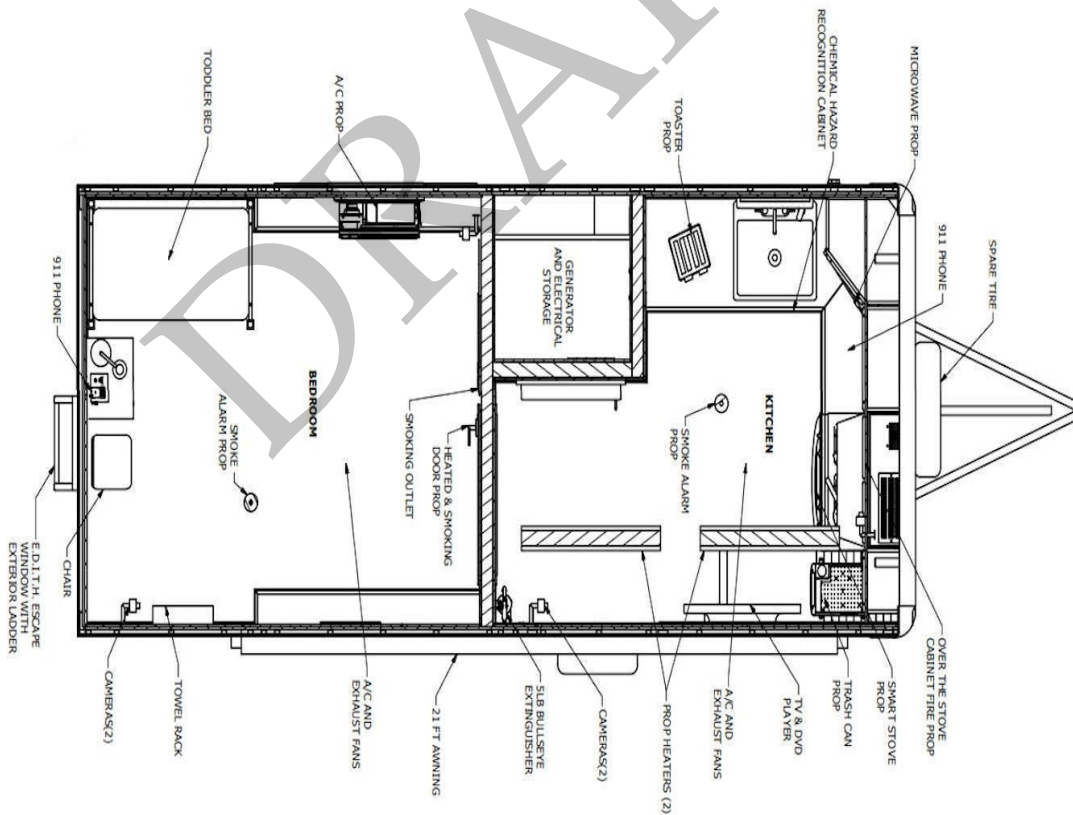


*This image is for illustrative purposes only

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-60)

100-60 Fire Department - Fire Training System - \$505,248

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Fire Training System for \$505,248
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$8,916,056
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$8,410,808
Vote on Motion:		



*This image is for illustrative purposes only

**GENERAL FUND
POLICE DEPARTMENT SUPPLEMENTAL DOCUMENTATION
OVERVIEW
(100-61)**

GL Code	Department	Description	FY23 Proposed Budget
100-61	Police Department	Dog Pound	\$800,000
100-61	Police Department	Leased Property	\$26,400
Total Capital Expenditures			\$826,400
Beginning General Fund Balance			\$8,410,808
Ending General Fund Balance			\$7,584,408

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GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-61)

100-61 Police Department - Dog Pound - \$800,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Dog Pound for \$800,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$8,410,808
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$7,610,808
Vote on Motion:		

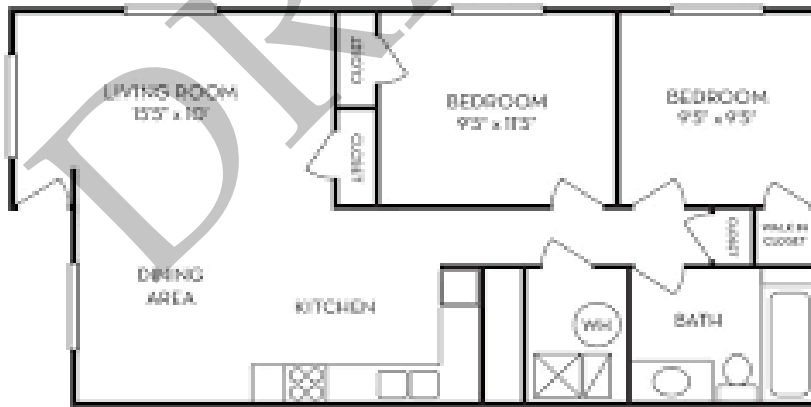


*This image is for illustrative purposes only

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-61)

100-61 Police Department - Leased Property - \$26,400

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Leased Property for \$26,400
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$7,610,808
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$7,584,408
Vote on Motion:		



*This image is for illustrative purposes only

**GENERAL FUND
STREETS & ROADS DEPARTMENT
(100-66)**

GL Code	Department	Description	FY23 Proposed Budget
100-66	Streets & Roads	D3 Cast Dozer Model: LGP	\$175,000
100-66	Streets & Roads	Cat Compactor Model	\$210,000
100-66	Streets & Roads	Gravel for Road Improvement	\$600,000
100-66	Streets & Roads	Culverts	\$100,000
100-66	Streets & Roads	Guard Rails & Posts	\$100,000
100-66	Streets & Roads	Simon Retention Pond	\$350,000
100-66	Streets & Roads	Freight for Dump Trucks	\$40,000
Total Capital Expenditures			\$1,575,000
Beginning General Fund Balance			\$7,584,408
Ending General Fund Balance			\$6,009,408

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-66)

100-66 Streets & Roads - D3 Cat Dozer Model: LGP \$175,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, D3 Cat Dozer Model: LGP for \$175,000
Seconded By:		Designated Fund Balance (Account 100-10- 100) Before Purchase:
		\$7,584,408
		Designated Fund Balance (Account 10-39900) After Purchase:
		\$7,409,408
Vote on Motion:		



*This image is for illustrative purposes only

**GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(100-66)**

100-66 Streets & Roads - Caterpillar Compactor - \$210,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Caterpillar Compactor for \$210,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$7,409,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$7,199,408
Vote on Motion:		



*This image is for illustrative purposes only

**GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(100-66)**

100-66 Streets & Roads - Gravel for Road Improvement \$600,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, D-1 Gravel Maintenance for \$600,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$7,199,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$6,599,408
Vote on Motion:		



*This image is for illustrative purposes only

**GENERAL FUND
STREETS & ROADS DEPARTMENT SUPPLEMENTAL PAGE
D-1 GRAVEL
(100-66)**

Subdivision	Road	Description	FY2023	FY2024	FY2025	FY2026	Total Amount
City Subdivision							
	Napakiak Drive	Mission too Akiak Drive, 12,135 feet, 754 yards of D-1 gravel, 58 loads at a cost of \$1,360 per load.				\$78,880	\$78,880
	Akiakchak Drive	\$1,360 per load. With an estimated 122 loads of gravel.					
Blueberry Fields							
	Alex Hatley Drive	The road is 1,422 feet and requires an estimated 72 truck loads of D-1 gravel.					
	Cranberry Street	Cranberry Street needs 296 ft/195 yards of gravel. This requires an estimated 195 loads of D-1 gravel.				\$20,400	
Brown's Slough							
	East Avenue	East Avenue is 1900 ft, 11,000ft./ 1235 yards of gravel and requires 195 loads of D-1 gravel.	\$129,200				\$129,200
Tundra Ridge Subdivision							
	Kaigutau Road	Kaigutau Road is 1170 ft. It requires 767 yards of gravel and 59 loads of D-1 gravel.			\$92,480		\$92,480
	Imkuciq Street	Imkuciq Street is 1041 ft. it requires 689 yards of gravel the equivalent of 53 loads of D-1 gravel.				\$72,080	\$72,080
	Makqaria Road (9200 Tundra Ridge)	The part of Makqaria Road that needs gravel is 1151 ft. It requires 754 yards of gravel an estimated 58 loads of D-1 gravel.				\$78,880	\$78,880
	Negqerralria Drive (9300 Tundra Ridge)	The portion of Negqerrairia Drive that needs gravel is 2926 ft. It requires 1911 yards of gravel, an estimate equivalent of 147 loads of D-1 gravel.					
	Ayaginar Drive (9400 Tundra Ridge)	The portion of Ayaginar Drive that needs gravel is 2926 ft. It requires 1911 yards of gravel, an estimate equivalent of 147 loads of D-1 gravel.	\$199,920				\$199,920

* The City of Bethel owns more roads than are listed. The ones that are listed in the Capital Improvement Project are the major roads per subdivision.

GENERAL FUND STREETS & ROADS DEPARTMENT
D-1 GRAVEL
(100-66)

Subdivision	Road	Description	FY2023	FY2024	FY2025	FY2026	Total Amount
Kasayuli Subdivision							
	Neal Polty Road	The portion of Neal Polty Road that needs gravel is 3,480 ft. It requires 2,262 yards of gravel, an estimate equivalent of 174 loads of D-1 gravel.	\$236,640				\$236,640
	Paul John St	The portion of Paul John Street that needs gravel is 1,087 ft. It requires 715 yards of gravel, an estimate equivalent of 55 loads of D-1 gravel.	\$40,560	\$34,240			\$74,800
	Uqusqak Road (Pintail)	The portion of Uqusqak Rpad that needs gravel is 1,490 ft. It requires 975 yards of gravel, an estimate equivalent of 75 loads of D-1 gravel.		\$102,000			\$102,000
	Isaac Hawk Street	needs gravel is 1,641 ft. It requires 1,079 yards of gravel, an estimate equivalent of 83 loads of D-1 gravel.		\$112,880			\$112,880
	Neqleq Street (Whit Front Goose)	The portion of Neqleq Street that needs gravel is 1,144 ft. It requires 1,040 yards of gravel, an estimate equivalent of 60 loads of D-1 gravel.			\$81,600		\$81,600
	Tuutangayak Street (Canadian Goose)	The portion of Tuutangayak Stret that needs gravel is 1,144 ft. It requires 1040 yards of gravel, an estimate equivalent of 60 loads of D-1 gravel.		\$81,600			\$81,600
	Koyuuk St (Swan)	The portion of Negqerrairia Drive that needs gravel is 425 ft. It requires 286 yards of gravel, an estimate equivalent of 22 loads of D-1 gravel.				\$29,920	\$29,920
	Nacaullex St. (Emperor Goose)	The portion of Nacaullex Street that needs gravel is 1,144 ft. It requires 800 yards of gravel, an estimate equivalent of 60 loads of D-1 gravel.		\$81,600			\$81,600
	Neqlernag Loop (Black Swan)	The portion of Neqlernag Loop that needs gravel is 1,574 ft. It requires 1000 yards of gravel, an estimate equivalent of 80 loads of D-1 gravel.		\$108,600			\$108,800

GENERAL FUND STREETS & ROADS DEPARTMENT
D-1 GRAVEL
(100-66)

Subdivision	Road	Description	FY2023	FY2024	FY2025	FY2026	Total Amount
Avenues							
	4th Avenue	The portion of 4th Avenue that needs gravel is 2,262 ft. It requires 1,495 yards of gravel, an estimate equivalent of 115 loads of D-1 gravel.				\$156,400	\$156,400
	5th Avenue	The portion of 5th Avenue that needs gravel is 1,546 ft. It requires 977 yards of gravel, an estimate equivalent of 75 loads of D-1 gravel.				\$115,600	\$115,600
	Willow Street	The portion of Willow Street that needs gravel is 1,336 ft. It requires 871 yards of gravel, an estimate equivalent of 67 loads of D-1 gravel.			\$91,120		\$91,120
	6th Avenue	The portion of 6th Avenue that needs gravel is 1,944 ft. It requires 1,300 yards of gravel, an estimate equivalent of 100 loads of D-1 gravel.			\$136,000		\$136,000
	7th Avenue	The portion of 7th Avenue that needs gravel is 2,262 ft. It requires 1,595 yards of gravel, an estimate equivalent of 115 loads of D-1 gravel.			\$156,400		\$156,400

* The City of Bethel owns more roads than are listed. The ones that are listed in the Capital Improvement Project are the major roads per subdivision.

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-66)

100-66 Streets & Roads - Culverts \$100,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Culverts for \$100,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$6,599,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$6,499,408
Vote on Motion:		



*This image is for illustrative purposes only

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-66)

100-66 Streets & Roads - Guard Rails & Posts - \$100,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Guard Rails & Posts for \$100,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$6,499,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$6,399,408
Vote on Motion:		



*This image is for illustrative purposes only

GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (100-66)

100-66 Streets & Roads - Simon Retention Pond \$350,000

	Summary of Motion	
Moved By:		Motion to approve Capital Expenditure, Simon Retention Pond for \$350,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$6,399,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$6,049,408
Vote on Motion:		

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**GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(100-66)**

100-66 Streets & Roads - Freight for Dump Trucks - \$40,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Freight for Dump Trucks for \$40,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$6,049,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$6,009,408
Vote on Motion:		

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**GENERAL FUND
PROPERTY MAINTENANCE DEPARTMENT
(100-70)**

GL Code	Department	Description	FY23 Proposed Budget
100-70	Property Maintenance	Rehabilitating Public Parks	\$100,000
100-70	Property Maintenance	Boardwalk Building Project	\$200,000
Total Capital Expenditures			\$300,000
Beginning General Fund Balance			\$6,009,408
Ending General Fund Balance			\$5,709,408

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**GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(100-70)**

100-70 Property Maintenance -Rehabilitating Public Parks - \$100,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Rehabilitating Public Parks - \$200,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$6,009,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$5,909,408
Vote on Motion:		

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**GENERAL FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(100-70)**

100-70 Property Maintenance - Boardwalk Lighting Project - \$200,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Boardwalk Lighting Project for \$200,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$5,909,408
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$5,709,408
Vote on Motion:		

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**YUKON-KUSKOKWIM REGIONAL HEALTH & AQUATIC SAFETY
TRAINING CENTER
ENTERPRISE FUND SUMMARY
(400)**

GL Code	Department	Description	FY22 Proposed Budget
400-50	YKRHASTC	Feasibility Study	\$58,000
Total Capital Expenditures			\$58,000
Beginning Solide Waste Fund Balance			\$2,156,392
Total Capital Expenditures			\$58,000
Ending Solid Waste Fund Balance			\$2,098,392

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**YUKON-KUSKOKWIM REGIONAL HEALTH & AQUATIC SAFETY TRAINING CENTER
SUPPLEMENTAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(400)**

400-50 Yukon-Kuskokwim Aquatic Health & Safety Center -Feasibility Study - \$58,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Feasibility Study for \$58,000
Seconded By:		Designated Fund Balance (Account 100-10-100) Before Purchase:
		\$2,156,392
		Designated Fund Balance (Account 100-10-100) After Purchase:
		\$2,098,392
Vote on Motion:		

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**SOLID WASTE ENTERPRISE FUND
SUPPLEMENTAL DOCUMENTATION**

500-70 Hauled Refuse

500-71 Landfill

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**SOLID WASTE ENTERPRISE FUND
(500)**

GL Code	Department	Description	FY22 Proposed Budget
500-71	Landfill	Cat Excavator Model	\$530,000
Total Capital Expenditures			\$530,000
Beginning Solide Waste Fund Balance			\$4,142,926
Total Capital Expenditures			\$530,000
Ending Solid Waste Fund Balance			\$3,612,926

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SOLID WASTE FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (500)

500-71 Landfill - Caterpillar Excavator Model - \$530,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Caterpillar Excavator Model for \$530,000
Seconded By:		Designated Fund Balance (Account 500-10-100) Before Purchase:
		\$4,142,926
		Designated Fund Balance (Account 500-10-100) After Purchase:
		\$3,612,926
Vote on Motion:		



*This image is for illustrative purposes only

**WATER & SEWER UTILITY FUND
SUPPLEMENTAL DOCUMENTATION**

510-81 Hauled Water

510-85 Hauled Sewer

510-86 Piped Sewer

510-87 Sewer Lagoon

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WATER & SEWER UTILITY ENTERPRISE FUND (510)

GL Code	Department	Description	FY22 Proposed Budget
510-81	Hauled Water		
	Hauled Water	Kenworth Water Truck	\$300,000
	Hauled Water Department Sub-Total		\$300,000
510-85	Hauled Sewer		
	Hauled Sewer	Kenworth Sewer Truck	\$300,000
	510-85-9699	Hauled Sewer	Short Lived Assets
		Hauled Sewer Department Sub-Total	\$482,825
510-86	Piped Sewer		
	Piped Sewer	SCADA System	\$75,000
	510-86-9699	Piped Sewer	Short Lived Assets
		Piped Sewer Department Sub-Total	\$257,825
510-87-6420	Sewer Lagoon		
	Sewer Lagoon	Jetty Bond Prinicipal & Interest Payments	\$34,740
	Sewer Lagoon Department Sub-Total		\$34,740
Beginning Water & Sewer Utility Fund Balance			\$5,240,343
Total Capital Expenditures			\$1,075,390
Solid Waste Enterprise Fund Remaining Balance			\$4,164,953

**WATER & SEWER UTILITY ENTERPRISE FUND
HAULED WATER EXPENDITURES
(510-81)**

GL Code	Department	Description	FY23 Proposed Budget
510-81	Hauled Water		
	Hauled Water	Kenworth Water Truck	\$300,000
	Hauled Water Department Sub-Total		\$300,000
	Beginning Water & Sewer Utility Fund Balance		\$5,240,343
	Ending Water & Sewer Fund Balance		\$4,940,343

DRAFT

**WATER & SEWER UTILITY FUND CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(510-81)**

510-81 Hauled Water - Kenworth Water Truck \$300,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Kenworth Water Truck for \$300,000
Seconded By:		Cash in Combined Fund Balance (Account 510-10-100) Before Purchase:
		\$5,240,343
		Cash in Combined Fund Balance (Account 510-10-100) After Purchase:
		\$4,940,343
Vote on Motion:		



*This image is for illustrative purposes only

**WATER & SEWER UTILITY ENTERPRISE FUND
HAULED SEWER EXPENDITURES
(510-85)**

GL Code	Department	Description	FY22 Proposed Budget
Hauled Sewer			
510-85	Hauled Sewer	Kenworth Sewer Truck	\$300,000
510-85-9699	Hauled Sewer	Short Lived Assets	\$182,825
Hauled Sewer Department Sub-Total			\$482,825
Beginning Water & Sewer Utility Fund Balance			\$4,940,343
Ending Water & Sewer Fund Balance			\$4,457,518

DRAFT

**WATER & SEWER UTILITY FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(510-85)**

510-85 Hauled Sewer - Sewer Truck \$300,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Sewer Truck for \$300,000
Seconded By:		Cash in Combined Fund Balance (Account 510-10-100) Before Purchase:
		\$4,940,343
		Cash in Combined Fund Balance (Account 51-10-100) After Purchase:
		\$4,640,343
Vote on Motion:		



*This image is for illustrative purposes only

**WATER & SEWER UTILITY FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(510-85)**

510-85 Hauled Sewer - Short Lived Assets

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Short Lived Assets \$182,825
Seconded By:		Cash in Combined Fund Balance (Account 51-10-100) Before Purchase:
		\$4,640,343
		Cash in Combined Fund Balance (Account 51-10100) After Purchase:
		\$4,457,518
Vote on Motion:		

DRAFT

**WATER & SEWER UTILITY ENTERPRISE FUND
PIPED SEWER EXPENDITURES
(510-86)**

GL Code	Department	Description	FY22 Proposed Budget
	Piped Sewer		
510-86	Piped Sewer	SCADA System	\$75,000
510-86-9699	Piped Sewer	Short Lived Assets	\$182,825
	Piped Sewer Department Sub-Total		\$257,825
	Beginning Water & Sewer Utility Fund Balance		\$4,457,518
	Ending Water & Sewer Fund Balance		\$4,199,693

**WATER & SEWER UTILITY FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(510-86)**

510-86 Piped Sewer - SCADA System \$75,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Hermon Nelson Heater for \$75,000
Seconded By:		Cash in Combined Fund Balance (Account 51-10100) Before Purchase:
		\$4,457,518
		Cash in Combined Fund Balance (Account 51-10100) After Purchase:
		\$4,382,518
Vote on Motion:		

DRAFT

**WATER & SEWER UTILITY FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(510-86)**

510-86 Piped Sewer - Short Lived Assets \$182,825

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Short Lived Assets for \$182,825
Seconded By:		Cash in Combined Fund Balance (Account 51-10-100) Before Purchase:
		\$4,382,518
		Cash in Combined Fund Balance (Account 51-10-100) After Purchase:
		\$4,199,693
Vote on Motion:		

DRAFT

**WATER & SEWER UTILITY ENTERPRISE FUND
SEWER LAGOON EXPENDITURES
(510-87)**

GL Code	Department	Description	FY23 Proposed Budget
Sewer Lagoon			
510-87-6420	Sewer Lagoon	Jetty Bond Prinicipal & Interest Payments	\$34,740
Sewer Lagoon Department Sub-Total			\$34,740
Beginning Water & Sewer Utility Fund Balance			\$4,199,693
Ending Water & Sewer Fund Balance			\$4,164,953

DRAFT

**WATER & SEWER UTILITY FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(510-87)**

510-87 Sewer Lagoon -Jetty Loan Payment for \$34,730

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Jetty Loan principal and interest payment for \$34,740
Seconded By:		Cash in Combined Fund Balance (Account 510-10-100) Before Purchase:
		\$4,199,693
		Cash in Combined Fund Balance (Account 510-10-100) After Purchase:
		\$4,164,953
Vote on Motion:		

DRAFT

MUNICIPAL DOCK FUND SUPPLEMENTAL DOCUMENTATION

520-50 Municipal Dock

520-55 Small Boat Harbor

DRAFT

**MUNICIPAL DOCK ENTERPRISE FUND
(520)**

GL Code	Department	Description	FY22 Proposed Budget
520-50	Municipal Dock	Road Watering Truck	\$200,000
520-50	Municipal Dock	Ford F-250	\$60,000
520-50	Municipal Dock	Ford F-250	\$60,000
520-55	Municipal Dock	CAT D-5	\$35,000
520-55	Municipal Dock	CAT TLI255	\$271,452
520-55	Small Boat Harbor	Floats	\$1,000,000
Total Capital Expenditures			\$1,626,452
Beginning Municipal Dock Enterprise Fund Balance			\$4,362,092
Total Capital Expenditures			\$1,626,452
Ending Municipal Dock Enterprise Fund Balance			\$2,735,640

**MUNICIPAL DOCK ENTERPRISE FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(520-50)**

520-50 Municipal Dock- Road Watering Truck \$200,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Road Watering Truck for \$200,000
Seconded By:		Cash in Combined Fund Balance (Account 520-10-100) Before Purchase:
		\$4,362,092
		Cash in Combined Fund Balance (Account 520-10-100) After Purchase:
		\$4,162,092
Vote on Motion:		



*This image is for illustrative purposes only

**MUNICIPAL DOCK ENTERPRISE FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(520-50)**

520-50 Municipal Dock- Ford F-250 \$60,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, One Ford F-250 Pick-up Truck for \$60,000
Seconded By:		Cash in Combined Fund Balance (Account 520-10-100) Before Purchase:
		\$4,162,092
		Cash in Combined Fund Balance (Account 520-10-100) After Purchase:
		\$4,102,092
Vote on Motion:		



*This image is for illustrative purposes only

**MUNICIPAL DOCK ENTERPRISE FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(520-50)**

520-50 Municipal Dock- Ford F-250 \$60,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, One Ford F-250 Pick-up Truck for \$60,000
Seconded By:		Cash in Combined Fund Balance (Account 520-10-100) Before Purchase:
		\$4,102,092
		Cash in Combined Fund Balance (Account 520-10-100) After Purchase:
		\$4,042,092
Vote on Motion:		



*This image is for illustrative purposes only

**MUNICIPAL DOCK ENTERPRISE FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(520-50)**

520-50 Municipal Dock- CAT D-5 - \$35,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, One CAT D-5 for \$35,000
Seconded By:		Cash in Combined Fund Balance (Account 520-10-100) Before Purchase:
		\$4,042,092
		Cash in Combined Fund Balance (Account 520-10-100) After Purchase:
		\$4,007,092
Vote on Motion:		



*This image is for illustrative purposes only

**MUNICIPAL DOCK ENTERPRISE FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(520-50)**

520-50 Municipal Dock- CAT TLI255 - \$271,452

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, One CAT D-5 for \$271,452
Seconded By:		Cash in Combined Fund Balance (Account 520-10-100) Before Purchase:
		\$4,007,092
		Cash in Combined Fund Balance (Account 520-10-100) After Purchase:
		\$3,735,640
Vote on Motion:		



*This image is for illustrative purposes only

**MUNICIPAL DOCK ENTERPRISE FUND CAPITAL EXPENDITURES SUPPLEMENTAL
DOCUMENTATION
(520-55)**

520-55 Municipal Dock - Floats \$1,000,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, Floats for \$1,000,000
Seconded By:		Cash in Combined Fund Balance (Account 520-10-100) Before Purchase:
		\$3,735,640
		Cash in Combined Fund Balance (Account 520-10-100) After Purchase:
		\$2,735,640
Vote on Motion:		



*This image is for illustrative purposes only

**BETHEL TRANSIT SYSTEM ENTERPRISE FUND
SUPPLEMENTAL DOCUMENTATION**

560-50 Transit System

DRAFT

**BETHEL TRANIST SYSTEM ENETERPRISE FUND
(560)**

GL Code	Department	Description	FY23 Proposed Budget
560-50	Bethel Public Transit	New Bus	\$86,000
Total Capital Expenditures			\$86,000

DRAFT

**BETHEL TRANSIT SYSTEM EXPENDITURES SUPPLEMENTAL DOCUMENTATION
(560-50)**

560-50 Bethel Transit System - New Bus \$86,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, one new bus for \$86,000
Seconded By:		Cash in Combined Fund Balance (Account 560-10-100) Before Purchase:
		(\$737,755) Grant Funded
		Designated Fund Balance (Account 560-10-100) After Purchase:
		(\$823,755) Grant Funded
Vote on Motion:		

DRAFT

**AMERICAN RESCUE PLAN ACT (ARPA)
(660)**

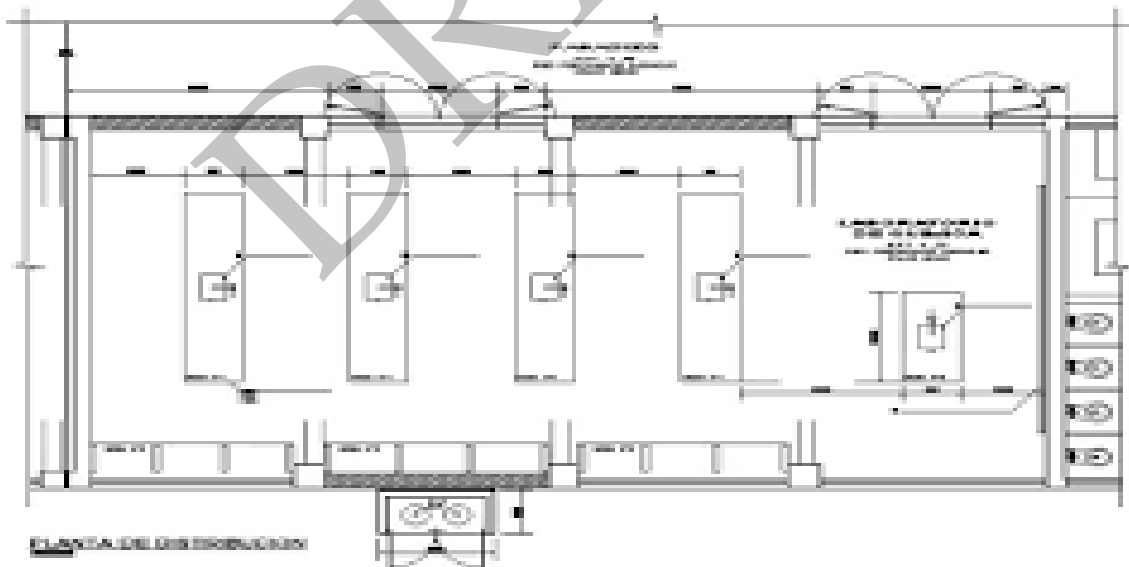
GL Code	Benefitting Department	Description	FY23 Proposed Budget
660-70	City-Sub Water Treatment Facility	Chemical Building	\$1,500,000
Total Capital Expenditures			\$1,500,000

DRAFT

AMERICAN RESCUE PLAN ACT CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (660)

660 American Rescue Plan Act - Chemical Building \$1,500,000

		Summary of Motion
Moved By:		Motion to approve Capital Expenditure, one new bus for \$1,500,000
Seconded By:		Cash in Combined Fund Balance (Account 560-10-100) Before Purchase:
		(\$1,500,000) Grant Funded
		Designated Fund Balance (Account 560-10-100) After Purchase:
		(\$1,500,000) Grant Funded
Vote on Motion:		



*This image is for illustrative purposes only

DRAFT



Further Supplemental Documentation

Yukon-Kuskokwim Health & Safety Aquatic Training Center Expansion Study

DRAFT



May 10, 2022
W.O. 50109.02

Mr. Peter Williams
City of Bethel
P.O. Box 1388
Bethel, Alaska 99559

Subject: **DOWL Term Contract 2017-2022**
Fee Proposal for Planning and Engineering Services
Task Order #37 - YK Fitness Center Expansion Feasibility Study - AMENDMENT

Dear Mr. Williams:

DOWL is pleased to present a scope of work and fee proposal amendment for the following task order:

Task Order #37 - YK Fitness Center Expansion Feasibility Study

It is our understanding that the City of Bethel (City) wishes to study an additional, larger layout of the original concept for expansion of the YK Fitness Center and include additional community outreach, research on like facilities throughout the state, and an expanded financial modeling scenario. This work will be accomplished as Phase 2 of the YK Fitness Center Expansion Feasibility Study.

ADDITIONAL SCOPE OF SERVICES

DOWL will work with the same term contracted sub-consultants on Phase 2 of this task order as we did on Phase 1. Our team will include Architects Alaska, AMC Engineers, and Agnew::Beck Consulting. We propose to accomplish the work under existing Tasks 1 through 5 as well as new Task 6.

Task 1- Facility Assessment

Additional work to be accomplished under this task for Phase 2 will include a new, expanded layout for the facility addition. This layout will be comprised of a larger, three court gymnasium. This larger layout is based on discussion with Brian Lefferts of the City of Bethel Parks & Recreation Committee. The layout will still include an elevated walking track, additional weight and multi-purpose rooms, and saunas. Drop curtains between courts, folding bleachers for spectator seating, and additional utility space, offices, and locker rooms will also be included. A new planning level cost estimate will be generated for the expanded layout. The estimate will show the three-court gymnasium as the base bid with the elevated track, weight and multipurpose rooms, and saunas as additive alternates so that the cost of each program area can be compared.

Task 2- Stakeholder Outreach

No additional work will be accomplished under this task for Phase 2.

Task 3- Community/Regional Outreach

Additional work to be completed under this task includes quantifying the need for facility expansion through interviews with specific sports user groups in Bethel. Specifically, our team will seek to better understand the availability of the school gyms for school and non-school user groups, barriers to school gym use, and the demand for additional gym space including willingness to pay for renting that space. User group outreach will include basketball and volleyball leagues, indoor soccer, and ultimate frisbee to quantify how often they look for space, how often they are unable to secure space, and other issues they might have with the availability of school gyms for sporting events. Through these interviews, we will better understand if there is enough interest by different user groups to refine our rental income forecast. This task will include between 10 and 15 interviews. An initial list of groups and individuals to interview will be provided by the City.

Task 4- Draft Feasibility Study

Based on the additional services provided in Tasks 1 and 3, we will revise the previously submitted draft report. The revised report will include an update to the financial model with a focus on rental fee revenue. Since the current pool facility operates in a deficit, to the extent possible, we will share a scenario that isolates the financials of the multi-purpose center from the pool, to better understand how the multi-purpose facility performs on its own. This task does not include time to develop a detailed staffing plan to support an expanded YK Fitness Center. We assume that any updated cost and staffing information will be provided by the City. We will hold a review meeting via conference call (Zoom or Teams) to discuss the revised findings.

Task 5- Final Feasibility Study

Once the City has provided comment on the revised draft report, our team will finalize the feasibility study.

Task 6- Comparison to Other Facilities

The purpose of this new task is to profile other recreation facilities that are being operated across the state that include a pool or gymnasium, specifically in rural communities such as Wrangell, Nikiski, Nome, Valdez, Homer, Kenai, or Palmer. We will prioritize community facilities that offer a similar level of service to the YK Fitness Center. We will create a case study of each relevant facility and share revenue sources and expenditures, as well as utilization data (if available), hours open to the public, and membership and drop-in rates. This task will include up to five case studies with an initial list of facilities to be compared provided to the City.

DELIVERABLES

- Revised Draft Feasibility Study
- Final Feasibility Study
- Case Study Comparison Matrix

ASSUMPTIONS

- No site visit will be conducted. All meetings and interviews will be via teleconference through standard means such as phone calls, Teams, or Zoom.
- The fee proposal does not include printing, mailing, or otherwise distributing any meeting or advertising material.
- No geotechnical investigations will be included as part of this scope.
- No topographic survey will be included as part of this scope.
- No environmental review will be included as part of this scope.
- Land requirements will be assessed, but the scope of work does not include any easement or ROW services.
- City will provide current revenue and expense details, as requested including updated cost or staffing information for the Fitness Center.
- Written comments will be issued on the Draft feasibility study. Multiple iterations will require an amendment.

FEE PROPOSAL

We propose to complete the above-described basic services for the Fees as indicated below.

Table 1: Amended Budget

Task	Contracted Budget	Additional Budget	Amended Budget Combined
Task 1- Facility Assessment -Lump Sum	\$22,715	\$21,454	\$44,169
Task 2- Stakeholder Outreach -Lump Sum	\$9,875	\$0	\$9,875
Task 3- Community/Regional Outreach -T&M	\$12,415	\$14,572	\$26,987
Task 4- Draft Feasibility Study -Lump Sum	\$24,895	\$11,668	\$36,563
Task 5- Final Feasibility Study - Lump Sum	\$2,755	\$2,460	\$5,215
New Task 6- Comparison to Other Facilities (T&M)	\$0	\$8,112	\$8,112
Total	\$72,655	\$58,266	\$130,921

We trust this provides adequate information for evaluating our proposal. We look forward to working with you on this project and will be happy to answer any additional questions you may have. Upon receiving a signed authorization to proceed, we will proceed.

Sincerely,
DOWL



Chase Nelson, P.E.
LLC Member/Project Manager

Using the City of Bethel-DOWL Engineering Services Term Contract Standard Conditions, DOWL is authorized to amend **Task Order #37 - YK Fitness Center Expansion Feasibility Study** and proceed with the amended Scope of Work.

City of Bethel Authorized Representative

Date

Attachment(s): Detailed DOWL and sub estimates

DRAFT

**DOWL
ESTIMATE FOR PROFESSIONAL SERVICES**

PROJECT: TO#37 - YK Fitness Center Expansion Feasibility Study - AMENDMENT

WO# 50109.02

DATE: 9-May-22

PREPARED BY: JRS

REVIEWED BY: CAN

CLIENT: City of Bethel

PROJECT SUMMARY

Task 1- Facility Assessment	TOTAL =	\$21,454
Task 3- Community/Regional Outreach	TOTAL =	\$14,572
Task 4- Draft Feasibility Study	TOTAL =	\$11,668
Task 5- Final Feasibility Study	TOTAL =	\$2,460
Task 6- Comparison to Other Facilities	TOTAL =	\$8,112
TOTAL ESTIMATED FEES FOR PROFESSIONAL SERVICES	TOTAL =	\$58,266

Labor Category	Project Manager	Project Engineer	Document Production	Accounting	Sub-consultants	TOTALS
	C. Nelson	J. Schmetzer	G. Stevens	T. Atwood		
Hourly Rate	\$195.00	\$170.00	\$125.00	\$140.00	6% Markup	
Task 1- Facility Assessment						
Project Management	4			0.5		4.5
Team Meeting	2	4				6
MEP Systems Evaluation (AMC)		2			\$6,784	2
Facility Layout & Assessment (AAI)		2			\$7,176	2
Planning Level Cost Estimate (Estimations)		2			\$4,554	2
Subtotal - Hours	6	10	0	0.5		16.5
Subtotal - Costs	\$1,170.00	\$1,700.00	\$0.00	\$70.00	\$18,514	\$21,454
Task 3- Community/Regional Outreach						
Project Management	2			0.5		2.5
Stakeholder Interviews		20			\$10,712	20
Subtotal - Hours	2	20	0	0.5		22.5
Subtotal - Costs	\$390.00	\$3,400.00	\$0.00	\$70.00	\$10,712	\$14,572

Labor Category	Project Manager	Project Engineer	Document Production	Accounting	Sub-consultants	TOTALS
	C. Nelson	J. Schmetzer	G. Stevens	T. Atwood		
Hourly Rate	\$195.00	\$170.00	\$125.00	\$140.00	6% Markup	
Task 4- Draft Feasibility Study						
Project Management	4			1.0		5.0
Updated Financial Model		2			\$5,838	2
Preparation of Compiled Draft	2	16				18
Review Meeting	4	4				8
Subtotal - Hours	10	22	0	1.0		33.0
Subtotal - Costs	\$1,950.00	\$3,740.00	\$0.00	\$140.00	\$5,838	\$11,668
Task 5- Final Feasibility Study						
Project Management	2			0.5		2.5
Preparation of Final Report	2	8	2			12
Subtotal - Hours	4	8	2	0.5		14.5
Subtotal - Costs	\$780.00	\$1,360.00	\$250.00	\$70.00	\$0.00	\$2,460
Task 6- Comparison to Other Facilities						
Project Management	2			0.5		2.5
Facility Research		8			\$6,292	8
Subtotal - Hours	2	8	0	0.5		10.5
Subtotal - Costs	\$390.00	\$1,360.00	\$0.00	\$70.00	\$6,292	\$8,112
TOTAL - Hours	24	68	2	3		97
TOTAL - Costs	\$4,680.00	\$11,560.00	\$250.00	\$420.00	\$41,356	\$58,266



Yukon-Kuskokwim Fitness Center Expansion Feasibility Assessment Update

Proposal for Professional Services

Submitted on May 10, 2022

DRAFT



May 10, 2022
Jennifer Schmetzer
Dowl
jschmetzer@dowl.com

Dear Jennifer,

Thank you for reaching out to us to continue supporting the City of Bethel as they explore an expansion of the Yukon-Kuskokwim Fitness Center in Bethel. In collaboration with Dowl and Architects Alaska, we submitted an initial financial analysis in 2021. We understand that the City of Bethel is interested in a additional information related to the need for additional gym space from local user groups, an updated financial model for an expanded facility with a focus on rental income and concessions, and how other communities across the state are financially supporting their fitness centers and/or gyms.

We have outlined a revised scope of work below:

1. Project Management & Communications

This task includes regular meetings with client and project team overall project management.

2. Need for Expansion: Additional Interviews

The purpose of this task is to quantify the need for expansion through interviews with user groups in Bethel. In particular, the project team will seek to better understand the availability of the school gyms for school and non-school user groups, barriers to school gym use and the demand for addition gym space including willingness to pay. User group outreach will include basketball and volleyball leagues, indoor soccer, and ultimate frisbee to quantify how often they look for space, how often they are unable to secure space, and other issues they might have with the availability of school gyms for sporting events. Through these interviews, we will better understand if there is enough interest by different user groups and we can refine our rental income forecast.

Deliverable:

Between 10 to 15 interviews will be conducted and a summary table of interview themes and quantified demand, where possible will be provided, as well as a PowerPoint slide deck sharing themes. An initial list of groups and individuals to interview will be provided by the City of Bethel.

3. Comparison to Other Facilities

The purpose of this task is to profile other recreation facilities that are being operated across the state, specifically in rural communities such as Wrangell, Nikiski, Nome, Valdez, Homer, Kenai or Palmer. We will prioritize community facilities that offer a similar level of service to the YK Fitness Center. We will create a case study of each relevant community fitness facility and share revenue sources and expenditures, as well as utilization data (if available), hours open to the public, and membership and drop-in rates.

Deliverable:

Up to five case studies and case study profiles in PPT and a case study comparison matrix in Word.

3. Revised Financial Model

Agnew::Beck will update the financial model based on additional information in Tasks 2 and 3, with a focus on rental fee revenue. Since the current pool facility operates in a deficit, to the extent possible, we will share a scenario that isolates the financials of the multi-purpose center from the pool, to better understand how the multi-purpose facility performs on its own.

Deliverable:

Updated financial models in Excel and shared in a technical memo and PPT slide deck. This task does not include A::B time to develop a detailed staffing plan to support an expanded YK Fitness Center. We assume that any updated cost and staffing information will be provided by Health Fit and/or the City of Bethel.

YKHC Fitness Center Expansion Updated Feasibility Study		Principal Shanna Zuspan		Senior Associate Michelle Humphrey		Associate		Total
Dates: July 2022 - November 2022		hours	rate \$175	hours	rate \$125	hours	rate \$100	
Task								
1. Project Management and Communications.								
Agnew::Beck will hold a kickoff meeting and maintain ongoing communications.		4	\$700	4	\$500	2	\$200	\$1,400
2. Update Community Need								
Agnew::Beck will conduct up to 15 interviews with community organizations and leaders to better understand the need and demand for fitness center programming and space, with a focus on an indoor gym.		12	\$2,100	30	\$3,750	36	\$3,600	\$9,450
3. Comparison to Other Facilities								
Agnew::Beck will identify, interview and create case study write-ups of up to five indoor gyms around rural Alaska.		6	\$1,050	20	\$2,500	20	\$2,000	\$5,550
4. Revise Financial Model								
Agnew::Beck will update the financial model based on additional information from Task 2 and Task 3.		8	\$1,400	30	\$3,750	0	\$0	\$5,150
Travel *								\$0
Expenses **								\$0
TOTAL ***		30	\$5,250	84	\$10,500	58	\$5,800	\$21,550

EXCLUSIONS + TERMS

* Travel - Roundtrip from Anchorage

** Other Expenses - Include costs for phone and related equipment and services required in the normal performance of the contract. Costs for services required to produce informational, advertising or meeting materials are included in this budget; however, costs for printing, mailing or otherwise distributing these materials, or for paid advertising or other public notices are not included in this budget and would be paid for directly by client, as needed. Digital versions of all final materials will be submitted in an organized manner to the client for future editing, use and reproduction. Rights to final versions of all materials are transferred to the client upon conclusion of the project. A::B reserves the right to use any and all project materials for educational and marketing purposes. A::B reserves the rights

This estimate is good for 90 days from the date of the estimate.

We can modify this scope and estimate to best match your needs and budget. Thank you for the opportunity to submit a proposal for this project.

Sincerely,

A handwritten signature in black ink that reads "Shann Zuspan". The signature is fluid and cursive, with the first name "Shann" and last name "Zuspan" clearly distinguishable.

Shann Zuspan, Principal::Owner

Agnew::Beck Consulting | 441 West Fifth Avenue, Suite 202 | Anchorage, AK 99501
shanna@agnewbeck.com | 907.222.5424 | www.agnewbeck.com

DRAFT



YK Fitness Center - Additional Expansion Options

Date: 05/05/22

Job No.: 18020.05

SUB to DOWL
3535 College Road, Suite 100
Fairbanks, AK 99709

Design Services	ARCH	CIVIL	STRUCT	MECH	ELECT	COST	TOTALS
Expanded Gym Option	\$ 6,770						\$ 6,770
TOTAL CONTRACT AMOUNT							\$ 6,770

Design Team		
ARCH	Architects Alaska, Inc.	All engineering will be performed by or subcontracted to DOWL
CIVIL	Civil Engineer	
STRUCT	Structural Engineer	
MECH	Mechanical Engineer	
ELECT	Electrical Engineer	
COST	Cost Estimator	

DRAFT

YK Fitness Center - Additional Expansion Options

SUB to DOWL
3535 College Road, Suite 100
Fairbanks, AK 99709

Date: 05/05/22
Job No.: 18020.05

Expanded Gym Option Architectural Labor Fee

[illegible]

Total Hours	49 Hours		
Architectural Labor Fee		\$	6,770.00

Expanded Gym Option Expenses

Printing

Plots (Bond Paper)	0 Sheets		\$	1.00 / sheet	\$	-
Plots (Mylar or Special Paper)	0 Sheets		\$	5.00 / sheet	\$	-
Print Drawing Sets (B&W)	0 Sets,	0 sheets per set	\$	2.20 / sheet	\$	-
Print Drawing Sets (Color)	0 Sets,	0 sheets per set	\$	5.25 / sheet	\$	-
Specifications / Reports	0 Books,	0 pages per spec / book	\$	0.10 / page	\$	-
Travel						
Air Fare	0 Trip(s),	0 traveler(s) @	\$	640.00 / round trip	\$	-
Ground Transport	0 Day(s),	1 vehicle(s) @	\$	150.00 / day	\$	-
Per Diem	0 Day(s),	1 traveler(s) @	\$	50.00 / day	\$	-
Mileage	0 Mile(s),		\$	0.575 / mile	\$	-
Airport Parking	0 Day(s),	1 vehicle(s) @	\$	18.00 / day	\$	-
Communications						
Long Distance Telephone	0 Month(s)		\$	20.00 / month	\$	-
Courier (Start - Destination)	0 Parcel(s)		\$	15.00 / parcel	\$	-
Mark-up	10.0%				\$	-

S _____

SUBTOTAL - Architects Alaska Expanded Gym Option Fee	\$	6,770.00
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Consultant Expanded Gym Option Fees

CIVIL: Civil Engineer
STRUCT: Structural Engineer
MECH: Mechanical Engineer
ELECT: Electrical Engineer
COST: Cost Estimator

[illegible]**Fee with Markup**

SUBTOTAL -Consultant Expanded Gym Option Fees, including Mark-up		\$	-
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SUBTOTAL - Expanded Gym Option	\$	6,770.00
--------------------------------	----	----------



Project Number: 21801
Project Code: BETHPOOL3
Prepared by: MDL / JDL

Date: 5/5/2022
Approved by: ML 5-5-2022

Feasibility Study for YK Health Center Gym Addition - Larger Addition

SUMMARY OF DESIGN SERVICES

	Mechanical	Electrical	Total	Basis
Feasibility Study	\$3,400	\$3,000	\$6,400	LSFF
Design Travel Expenses (NIC)	\$0	\$0	\$0	LSFF
Total Design Services	\$3,400	\$3,000	\$6,400	

Note that numbers have been rounded to the nearest \$100 increment.

Key: LSFF = Lump Sum Fixed Fee, T&E = Time and Expense, NTX = Time and Expense Not to Exceed, NIC = Not in Contract.

BASIC ASSUMPTIONS

The scope of this project is to perform a feasibility study and provide a concept design to add an indoor gym and track to the existing Yukon Kuskokwim Fitness Center. Concept design documentation will have enough detail to obtain a rough construction cost estimate.

This fee proposal is for mechanical, electrical, and plumbing (MEP) design services to update our concept design documentation to include a larger gymnasium addition and three alternates. Our proposal is based on our online meeting on April 22, 2022 between Jennifer Schmetzer (Dowl), Shanna Zuspan (Agnew Beck), and John Lackey (AMC Engineers).

AMC will provide the following deliverables:

1. A feasibility study and concept design narrative in PDF format including:
 - a. Analysis of existing MEP systems, detailing the capacity of each system to serve the proposed expansion.
 - b. Concept design describing MEP systems in the indoor gym and track expansion and how they will be connected to existing building services.
 - c. Evaluation of expected operating costs for the new addition.
2. Sketches as required to convey the MEP concept design intent. Sketches will be PDF copies of the architectural concept design drawings or existing building record drawings marked up with MEP design intent.
3. Analysis of the base scope and three design alternates including:
 - a. Base Scope: Provide an addition to the existing building to include locker rooms and a 3 court gymnasium.
 - b. Alt #1: Provide a raised running track around the perimeter of the gymnasium.
 - c. Alt #2: Include a multipurpose room and weight room in the addition.
 - d. Alt #3: Include a Sauna in the addition.

Our Standard Rate Schedule applies to all additional services. The prevailing rate schedule will apply to all services provided on a Time & Expenses basis. Any task or service with a zero total can be added as an additional service if requested.

A portion of expenses and other costs will be charged at each applicable phase.

Thank you for selecting AMC Engineers to work with you on this project!

ESTIMATIONS

May 10, 2022

Jennifer Schmetzer
DOWL
3535 College Road, Suite 100
Fairbanks, Alaska 99709

Re: City of Bethel YK Fitness Center Expansion
Project 1802.06 Fee Proposal

Jennifer,

We can provide you with cost estimating services for this project for the fee, outlined below.

Plan on a two week turnaround for the estimate to be developed, for review by the design team.

Item	Admin Rate \$108.00	Estimator \$87.00	Sr Estimator \$170.00	Fixed Fee Totals
Construction Cost Estimate				
Phase 2 - Feasibility Study	2	\$216	24	\$4,080
Revised Scope Concept				
Estimate - 1 Option with 3				
Alternates.			26	\$4,296

Thank you for choosing Estimations for your cost estimating services.

Sincerely,



Jay N. Lavoie
President



Yukon-Kuskokwim Fitness Center Expansion Feasibility Assessment Update

Proposal for Professional Services

Submitted on May 10, 2022

DRAFT



www.agnewbeck.com | 645 G Street, #200 | Anchorage, Alaska 99501 | 907.222.5424

Caterpillar CS56B Documentation

DRAFT



Cat® CS56B

100-66

SMOOTH DRUM VIBRATORY SOIL COMPACTOR

FEATURES:

The Cat® CS56B features a smooth drum and is ideally suited for granular soil applications:

- **Comfortable and ergonomic operator station** features pivoting seat with integrated multifunction LCD display and control console, outstanding visibility to the front and rear of machine, low sound levels and vibration for greater operator comfort and productivity.
- **World-class propel system** built around the exclusive Cat dual pump propel system, two pumps provide separate dedicated flow to drum drive motor and rear axle motor for exceptional gradeability and traction in forward and reverse. New electronic propel control enables more precise machine control.

- **Virtually maintenance free** due to maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.
- **Enhanced compaction performance** due to more weight at the drum and greater amplitude. Automated propel and vibratory system functions make it easy to ensure consistent, high quality.
- **Optional Cat® Compaction Control** helps the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.

Specifications

Engine - Power Train

Engine Model	Cat® C4.4 ACERT™	
Emission Standards	US EPA Tier 4 Final EU Stage IV	
Gross Power ISO 14396	117 kW	157 hp
Displacement	4.4 L	268.5 in³
Stroke	127 mm	5 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11.4 km/h	7 mph

Weights

Operating Weight w/ ROPS/FOPS canopy	11 290 kg	24,887 lb
w/ padfoot shell kit	12 700 kg	27,990 lb
w/ leveling blade	11 915 kg	26,260 lb
w/ padfoot shell kit and leveling blade	13 325 kg	29,363 lb
Operating Weight w/ ROPS/FOPS cab	11 500 kg	25,346 lb
w/ padfoot shell kit	12 900 kg	28,433 lb
w/ leveling blade	12 115 kg	26,703 lb
w/ padfoot shell kit and leveling blade	13 525 kg	29,806 lb
Weight at Drum w/ ROPS/FOPS canopy	6255 kg	13,788 lb
w/ padfoot shell kit	7660 kg	16,887 lb
w/ leveling blade	7145 kg	15,749 lb
w/ padfoot shell kit and leveling blade	8550 kg	18,848 lb
Weight at Drum w/ ROPS/FOPS cab	6350 kg	13,990 lb
w/ padfoot shell kit	7755 kg	17,092 lb
w/ leveling blade	7240 kg	15,952 lb
w/ padfoot shell kit and leveling blade	8645 kg	19,053 lb

Vibratory System Specifications

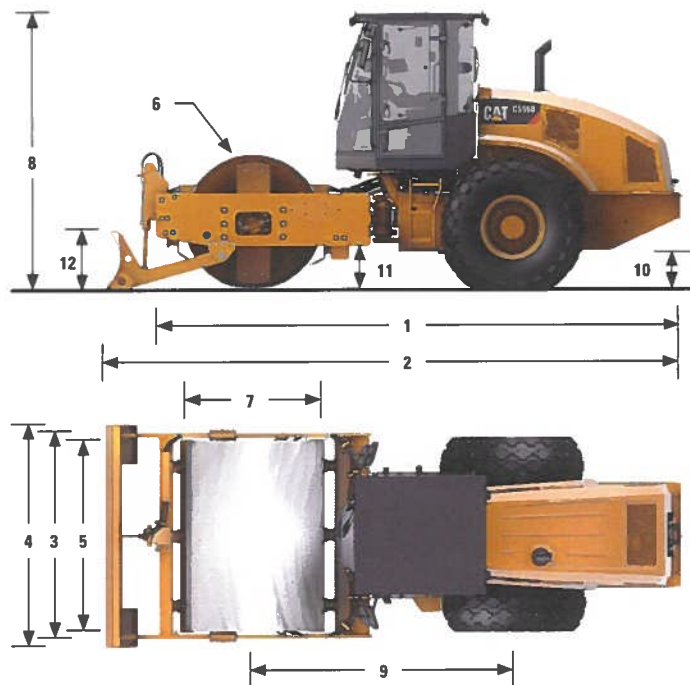
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @30.5 Hz (1830 vpm)		
High	2.1 mm	0.083 in
Low	0.98 mm	0.039 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	301 kN	67,600 lb
Minimum	141 kN	31,670 lb
Static Linear Load		
w/ ROPS/FOPS	29.3 kg/cm	164.1 lbs/in
w/ ROPS/FOPS Cab	29.8 kg/cm	166.5 lbs/in

Service Refill Capacities

Fuel Tank, total capacity	242 L	64 gal
Diesel Exhaust Fluid refill capacity	19 L	5 gal
Cooling System	27.8 L	7.3 gal
Engine Oil w/ Filter	11.6 L	3.1 gal
Eccentric Weight Housings	26 L	6.9 gal
Axle and Final Drives	18 L	4.8 gal
Hydraulic Tank (service refill)	50 L	13.2 gal



CS56B Vibratory Soil Compactor



Dimensions

1 Overall Length	5.86 m	19.2 ft
2 Overall Length w/ optional Leveling Blade	6.4 m	20.9 ft
3 Overall Width	2.30 m	7.53 ft
4 Overall Width w/ optional Leveling Blade	2.50 m	8.25 ft
5 Drum Width	2134 mm	84 in
6 Drum Shell Thickness	30 mm	1.18 in
7 Drum Diameter	1534 mm	60.4 in
8 Overall Height		
-Cab	3.11 m	10.2 ft
-ROPS/FOPS	3.08 m	10.1 ft
9 Wheelbase	2.9 m	9.5 ft
10 Ground Clearance	442 mm	17.4 in
11 Curb Clearance	494 mm	19.3 in
12 Optional Leveling Blade Height	688 mm	27.1 in
Inside Turning Radius	3.68 m	12.07 ft
Hitch Articulation Angle	34°	
Hitch Oscillation Angle	15°	

STANDARD EQUIPMENT Varies by market- contact your Dealer for specifics.

ELECTRICAL

- 24 volt Electrical System
- 100 ampere Alternator
- 750 Cold-cranks Amps Battery Capacity

OPERATOR ENVIRONMENT

- ROPS/FOPS with Platform Handrails/Guardrails
- Vinyl Adjustable Pivoting Seat with Integrated Console, Seat Belt
- Multifunction LCD Display with gauges and/or audible warning alarm for: Hydraulic oil temperature, Engine oil pressure, Engine coolant temperature, Alternator charge, Fuel level, Service hour meter, Engine RPM, Ground speed, Vibe frequency, Fuel rate, Air filter constriction, Engine load and Optional Cat Compaction Control
- Adjustable Tilting Steering Column with Integrated Cup Holders
- Lockable Vandalism Guard on LCD Display
- 12-volt Power Outlet
- Floor Mat
- Interior Rear View Mirror
- Horn, Backup Alarm

POWER TRAIN

- Cat® C4.4 Diesel Engine
- Three-speed Throttle Switch w/ Eco-mode, Automatic Speed Control
- Dual Propel Pumps; One for Drum Drive, One for Rear Axle
- Fuel Filter, Water Separator, Electronic Priming Pump, Water Indicator
- Tilting Radiator/Hydraulic Oil Cooler
- Dual Braking System
- Two-speed Hydrostatic Transmission

VIBRATORY SYSTEM

- Smooth Drum, Front Adjustable Steel Scraper
- Dual Amplitude, Single Frequency
- Pod-Style Eccentric Weight System
- Auto-vibe Function

OTHER

- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Cat® ToughGuard™ Hose
- S-O-S™ Sampling Valves, Engine Oil and Hydraulic Oil

OPTIONAL EQUIPMENT

- ROPS/FOPS Cab with Climate Control
- Padfoot Shell Kit
- Leveling Blade
- Variable Vibration Frequency
- Beacon, Rotating
- Polyurethane Drum Scrapers
- Steel Rear-side Drum Scraper
- Bio-oil Factory Fill
- High Ambient Temperature Oil Factory Fill
- Sun Visor
- Deluxe High-back Air-ride Pivoting Seat (with Cab only)
- Cat Compaction Control, Machine Drive Power or CMV or Both
- SBAS GNSS Mapping for Cat Compaction Control (RTK available)
- Upgraded Halogen Light Package
- Cab Internal Rear View Mirrors, Roll-down Sun Screen
- Product Link™

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg of refrigerant which has a CO₂ equivalent 1.144 metric tonne.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

QEHO1558-03 (03-17)

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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January 17, 2022

CITY OF BETHEL ACCOUNTS PAYABLE
P O PURCHASES ONLY
PO BOX 1388
BETHEL, Alaska 99559-1388

Attention: Jake Thompson

RE: Quote 258218-01 - QUOTED USING SOURCEWELL-CAT CONTRACT PRICING, CITY OF BETHEL MEMBER # 28863

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration.

One (1) New Caterpillar Model: CS56B Soil Compactor with all standard equipment in addition to the specifications listed below:

STOCK NUMBER: 21W1861

SERIAL NUMBER: TBD - NEW

YEAR: 2022

SMU: NEW

DRAFT

STANDARD EQUIPMENT**POWERTRAIN**

CAT C4.4 inline four cylinder, turbo-charged diesel engine with glow-plug heater

Dual element air cleaner

Fuel filter/water separator/electronic priming pump and water indicator

Three-speed throttle switch including ECOMODE

Dual propel pumps - 1 for drum and 1 for tires

Dual braking systems

Two-speed hydrostatic transmission

Limited slip differential

ELECTRICAL

24-volt starting and charging system alternator

2 Maintenance free batteries

Work lights

Backup alarm and forward warning horn

Product link ready

OPERATOR ENVIRONMENT

ROPS/FOPS platform

Four heavy-duty isolation mounts

Platform handrails/guardrails

Power steering

Adjustable tilt-steering column

Adjustable, rotating suspension seat

Retractable seat belt

Rear view camera with display

Adjustable, padded arm rest for propel lever operation

Lockable, vandalism guard for on-board display

12-volt power point

DRUMS

84" wide smooth drum

Dual amplitude with single frequency

Dual, pod-style eccentric weight housings

Front adjustable steel scraper

OTHER STANDARD EQUIPMENT

Locking composite engine enclosure

Sealed-for-life hitch bearings

-hydraulic oil level

Hydraulic tank locking cap

Articulated frame with safety lock

Transport tie-down and lift points

Fuel tank with lockable cap

Quick connect hydraulic pressure test ports

SOS ports

MACHINE SPECIFICATIONS

CS56B VIBRATORY COMPACTOR	433-1614	PRODUCT LINK, CELLULAR PL641	454-5454
ENGINE, TIER 4FINAL EMISSIONS	420-9160	TRANSMISSION GUARD	355-2660
SEAT BELT, 3"	387-1801	ENCLOSED CAB, ROPS/FOPS WITH A/C	435-8036
TIRES, 23,1-26 TITAN 8PR	203-4717	1 PAPER SET OF PARTS AND SERVICE MANUALS	
FIXED FREQUENCY	355-3547	FREIGHT FROM FACTORY, FOB BETHEL DOCKSIDE, AK - VIA SUMMER BARGE	
STEEL FRONT SCRAPER	360-0498	NEW MACHINE PREP	
NO BLADE	357-6261	5 YEAR / 3500 HOUR PREMIER WARRANTY -TECHNICIAN TRAVEL TIME & MILEAGE NOT INCLUDED	
CLOTH SEAT	356-1227		

NEW 2022 CAT CS56 SOIL COMPACTOR LIST PRICE	\$250,284.00
2022 SOURCEWELL CONTRACT DISCOUNT – 19% OFF LIST PRICE	-\$47,553.00
ADDITIONAL CAT SOIL COMPACTOR 2022 GOV CUSTOMER DISCOUNT	-\$14,179.00
SUBTOTAL	\$188,552.00

NON-CAT PRICE LIST ITEMS	
FREIGHT FROM FACTORY - FOB BETHEL, AK	\$12,000.00
NEW MACHINE PREP	\$4,500.00
1 PAPER SET PARTS AND SERVICE MANUALS	\$1,200.00
5 YEAR / 3500 HOUR CAT PREMIER WARRANTY	\$2,900.00
TOTAL	\$209,152.00

WARRANTY

Standard Warranty:	1 YEAR NEW CAT WARRANTY -TECHNICIAN TRAVEL TIME & MILEAGE NOT INCLUDED
Extended Warranty	5 YEAR / 3500 HOUR PREMIER WARRANTY -TECHNICIAN TRAVEL TIME & MILEAGE NOT INCLUDED

F.O.B/TERMS: BETHEL, AK VIA SUMMER 2022 BARGE

Accepted by _____ on _____

Signature

We wish to thank you for the opportunity of quoting on your equipment needs. This quotation is valid for 30 days, after which time we reserve the right to re-quote. If there are any questions, please do not hesitate to contact me.

Sincerely,

Steven Fisher
Machine Sales Representative
Cell: 907-748-7540
SFisher@NCMachinery.com

Caterpillar Excavator Documentation

DRAFT

336

HYDRAULIC EXCAVATOR



Engine Power
Operating Weight

232 kW (311 hp)
37 200 kg (81,900 lb)

Cat® C9.3B Engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.



NEXT GENERATION EXCAVATORS

Cat® Next Generation Excavators offer you more choices than ever for your business.

- + MORE MODEL OPTIONS
- + MORE STANDARD TECHNOLOGIES
- + MORE PRICE POINTS

Ready to help you make your business stronger, Cat Next Generation Excavators give you new ways to get the most work done at the lowest cost – so you put more money in your pocket.



THE CAT® 336

MOVING THE STANDARD HIGHER

The **CAT 336** raises the bar for efficiency and fuel economy in this size class. With the industry's highest level of standard factory technology, a cab made for operator comfort, plus lower fuel and maintenance costs, the 336 will help make your operation more productive and profitable.



INCREASE OPERATING EFFICIENCY UP TO 45%¹

The Cat 336 offers the industry's highest level of standard factory-equipped technology, including Cat GRADE with 2D, GRADE with Assist, and PAYLOAD.

INCREASE FUEL EFFICIENCY UP TO 15%²

A precise combination of lower engine speed and large hydraulic pump pressure and flow delivers more work per unit of fuel.

LOWER MAINTENANCE COSTS UP TO 15%³

Extended maintenance intervals increase uptime and reduce costs.

¹ Operator efficiency gains compared to traditional grading methods.

² Compared to the 336F.

³ Compared to the 336F. Cost reduction based on 12,000 hours of operation.

**LOAD UP
WITH**

**15% MORE FUEL
EFFICIENCY**

THAT'S 12 MORE TRUCKLOADS WITH THE
336 NEXT GENERATION EXCAVATOR.



336F

219 L (58 GAL) =
83 LOADED TRUCKS

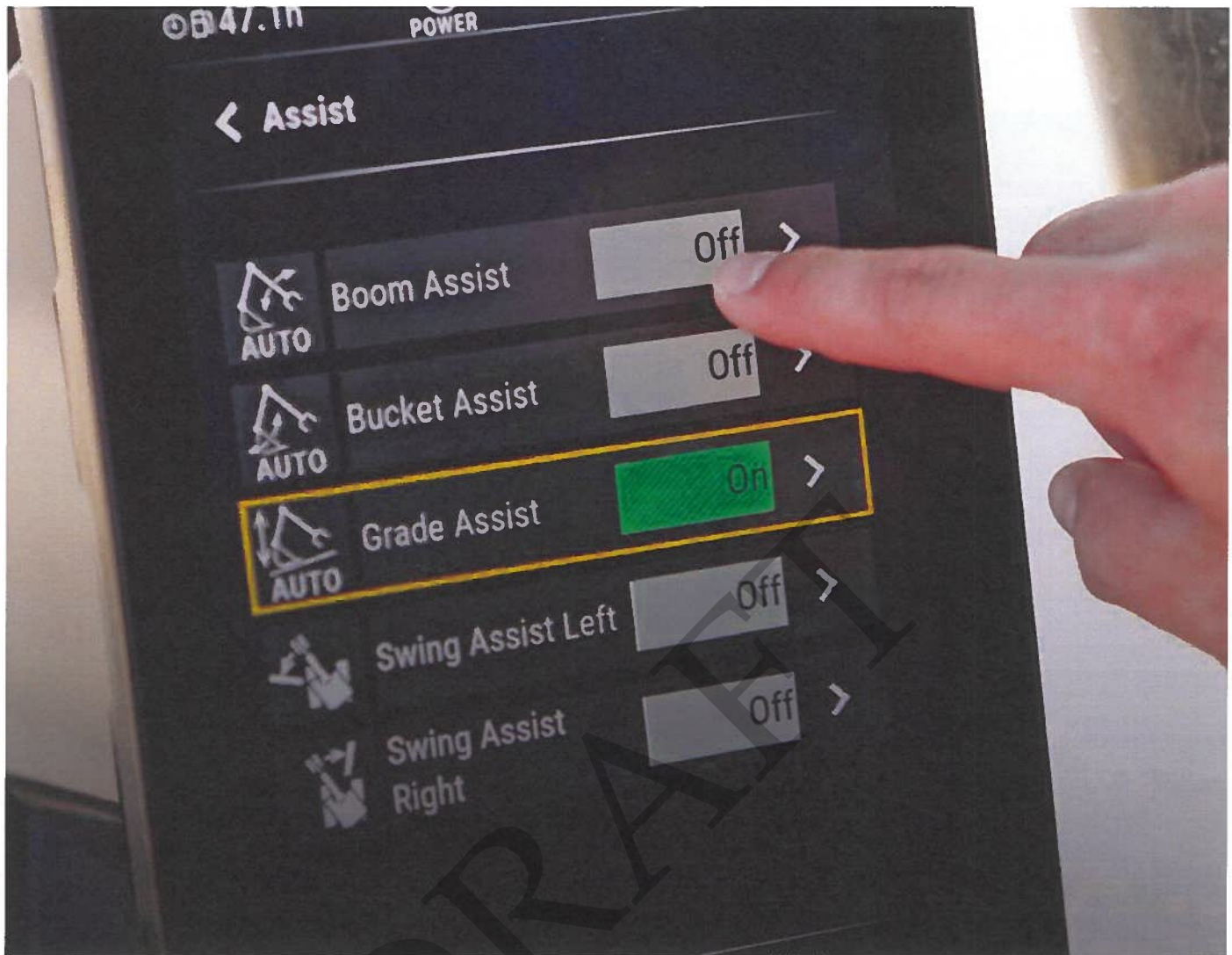


336

83 LOADED TRUCKS × 15%
EFFICIENCY IMPROVEMENT =
12 ADDITIONAL TRUCKLOADS

SCENARIO:

Cat® Excavators loading Cat 730 trucks using
219 L (58 gal) of fuel each day.



STANDARD CAT TECHNOLOGIES

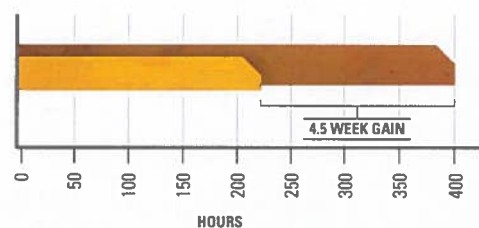
GETS JOBS DONE FASTER
WITH LESS REWORK

Cat Technology gives you the edge. Operators of all experience levels will dig, load, and grade with more confidence, speed, and accuracy. The result?

Better productivity and lower costs.

WHAT WOULD YOU DO WITH 4.5 MORE WEEKS?

45% GAIN WITH TECHNOLOGY
means same amount of work done faster



PREVIOUS YEAR:

USING TRADITIONAL GRADING METHODS

400 hours/year, grading with stakes and checkers

CURRENT YEAR:

USING CAT 336 WITH CAT TECHNOLOGY

220 hours/year, with standard Cat GRADE



INCREASE EFFICIENCY UP TO 45% WITH CAT TECHNOLOGY

STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:



STANDARD CAT GRADE WITH 2D

Cat GRADE with 2D helps operators reach grade faster. Operators cut and fill to exact specifications without overcutting. You can program up to four of your most commonly used target depth and slope offsets so you can get to grade with ease – a real time saver on the jobsite. Best of all, no grade checkers are needed so the work area is safer.



STANDARD CAT GRADE WITH ASSIST

Automated boom, stick, and bucket movements deliver more accurate cuts with less effort. The operator simply sets the depth and slope in the monitor and activates single-lever digging.



STANDARD CAT PAYLOAD

Cat PAYLOAD technology delivers precise load targets with on-the-go weighing, which helps prevent over/underloading and maximizes efficiency. Automated tracking helps manage production and lower cost. You can even take payload data with you. The monitor's USB port lets you download your results from one shift all the way up to 30 days of work so can manage your progress without needing an internet connection or VisionLink® subscription.



STANDARD LIFT ASSIST

Lift Assist quickly calculates the actual load you are lifting and compares it to the rated load the excavator is capable of handling. Visual and auditory alerts tell you if you are within safe working range or need to take action to avoid tipping.

AVAILABLE OPTIONAL UPGRADES

Cat GRADE with Advanced 2D and Cat GRADE with 3D increase productivity and expand grading capabilities. GRADE with Advanced 2D adds in-field design capabilities through an additional 254 mm (10 inch) high-resolution touchscreen monitor. GRADE with 3D adds GPS and GLONASS positioning for pinpoint accuracy. Plus it's easier than ever to connect to 3D services like Trimble Connected Community or Virtual Reference Station with the excavator's built-in communication technology.

CAT LINK TECHNOLOGY

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

CAT LINK telematics technology helps take the complexity out of managing your jobsites – by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



PRODUCT LINK™

Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.

VISIONLINK®

Access information anytime, anywhere with VisionLink – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).

Remote Services is a suite of technologies that improve your jobsite efficiency.

Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot ensures the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates on-board software without a technician being present, potentially reducing update time by as much as 50%. You can initiate the update when convenient, increasing your overall operating efficiency.



The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information you need to see. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

Caterpillar releases products, services and technologies in each region at different time intervals. Please verify with your local Cat dealer for technology availability and specifications.

CAB TAKES THE HARD OUT OF WORK

Sites where excavators typically work are rugged and challenging. That's why it's important that the 336 cab protects the operator as much as possible from the fatigue, stresses, sounds, and temperatures of the job.

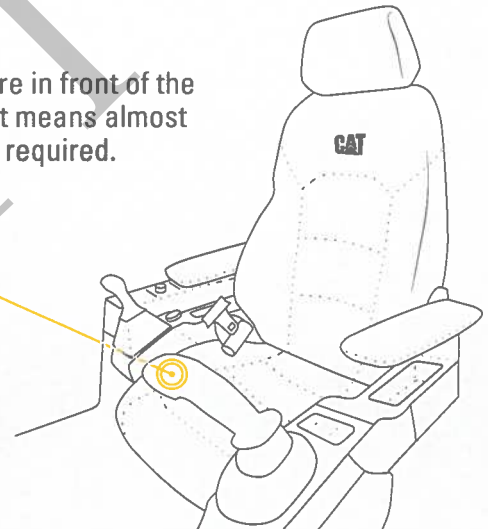


WE'VE GOT YOUR BACK.

BACK PAIN IS ONE OF THE MOST COMMON REASONS PEOPLE MISS WORK.*

NEW CAB:

All controls are in front of the operator. That means almost no twisting is required.



OLD CAB: 2,000+ twists a year to reach controls in back of cab that can strain your back.

ASSUME 1 TWIST PER HOUR
1 TWIST × 8-HOUR WORKDAY = 8 TWISTS PER DAY
8 TWISTS × 5 WORKDAYS PER WEEK = 40 TWISTS PER WEEK
40 TWISTS × 52 WEEKS PER YEAR = **2,080 TWISTS PER YEAR**

*SOURCE: [HTTPS://WWW.NINDS.NIH.GOV/DISORDERS/PATIENT-CAREGIVER-EDUCATION/FACT-SHEETS/LOW-BACK-PAIN-FACT-SHEET](https://www.ninds.nih.gov/disorders/patient-caregiver-education/fact-sheets/low-back-pain-fact-sheet)

SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat; the Premium seat is both heated and cooled.



TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution touchscreen monitor. It offers 42 languages and is easy to reach from the seat – no twisting or turning.



SMART MODE

Smart Mode, one of three power settings, automatically adjusts engine and hydraulic power for the highest fuel efficiency – less power for tasks such as swinging and more power for digging. Operators can set and store their power mode preference using Operator ID; owners can lock in the mode they want their operators to use to help manage fuel consumption.



CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with Operator ID and restored at log in.



KEYLESS PUSH START

The 336 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually, via an optional Bluetooth® key fob, or smartphone app.



BUILDS OPERATOR CONFIDENCE

A QUIET, SAFE WORKSPACE

ISO-CERTIFIED ROPS CAB

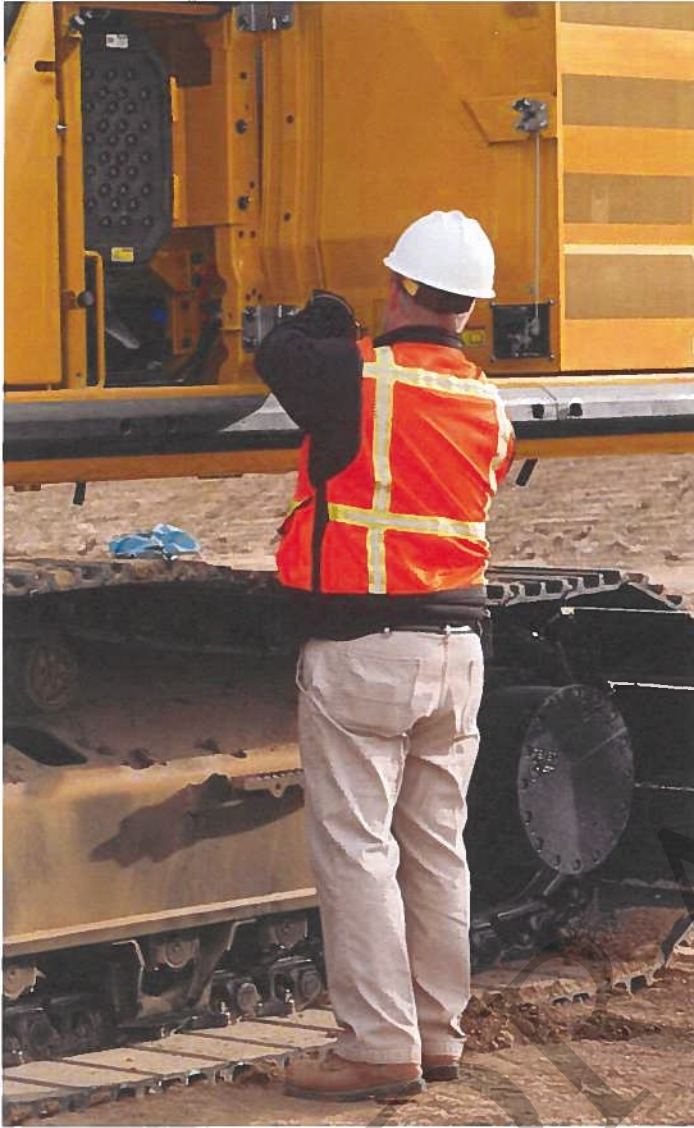
The ISO-certified ROPS cab is sound-suppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

ALL-AROUND VISIBILITY

A standard rearview camera keeps operators aware of their surroundings at all times. An optional 360° visibility feature is also available.

EASY ACCESS, CONNECTIVITY AND STORAGE

Convenience features include Bluetooth integrated radio, USB ports for charging and phone connectivity, 12V DC outlets and AUX port, storage in rear, overhead and console compartments, and cup and bottle holders.



SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE
AND YOUR EQUIPMENT

Routine maintenance checks can be performed faster, easier, and safer with ground-level access to the air precleaner, the fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

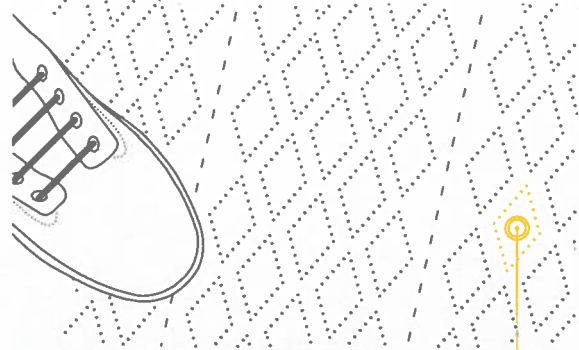
KEEP YOUR EXCAVATOR SECURE

Use your PIN code on the monitor, the optional Bluetooth key fob, or your smartphone to enable the push-button start.

1,148 WAYS TO STAY SAFE.

FACT:

SLIPPING IS ONE OF THE
BIGGEST CONTRIBUTORS
TO WORKPLACE INJURIES.*



OUR ANTI-SKID PLATES FEATURE

1,000+ INDIVIDUAL PERFORATIONS
FOR BETTER TRACTION

*SOURCE: [HTTPS://WWW.OSHA.GOV/DTE/GRANT_MATERIALS/FY07/SH-16625-07/SLIPSTRIPSFALLS.PPT](https://www.osha.gov/dte/grant_materials/FY07/SH-16625-07/SLIPSTRIPSFALLS.PPT)



E-WALL SWING



E-WALL FORWARD



E-WALL CAB PROTECTION



E-WALL CEILING



E-WALL FLOOR

STANDARD 2D E-FENCE TECHNOLOGY

Whether you are using a bucket or hammer, standard 2D E-Fence automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope – above, below, sides and front. E-Fence protects equipment from damage and reduces fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing overswinging and digging.



LOWER MAINTENANCE COSTS UP TO 15%

With extended maintenance intervals, you get more done at a lower cost compared to the 336F. Consolidated filter locations make service faster. Hydraulic, air, and fuel tank filters have increased capacity and longer life.

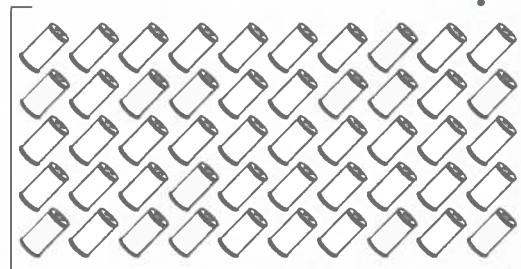
KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + Consolidated filter locations to reduce service time.
- + Oil and fuel filters with extended maintenance intervals.
- + Advanced air filter with double the dust holding capacity of the previous filter.



WHAT WILL YOU DO WITH YOUR SAVINGS?

REPLACE **50 FEWER FILTERS**
OVER 12,000 HOURS OF OPERATION.



THAT SAVES YOU **UP TO 15%**
IN MAINTENANCE COSTS*



*SOURCE: INTERNAL NEXT GENERATION PRODUCT SUPPORT
MAINTENANCE COST COMPARISON

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat Attachments. Each Cat Attachment is designed to fit the weight and horsepower of Cat Excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



PREVENT HAMMER WEAR AND TEAR

Turn on through the monitor and the hammer will automatically stop after 30 seconds of continuous firing, preventing both tool and excavator from overworking.

ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's onboard Bluetooth reader or Cat App on your phone will locate the device automatically.

MULTI-PROCESSORS



QUICK COUPLERS



RAKES



RIPPERS



SECONDARY PULVERIZERS



SHEARS



THUMBS



VIBRATORY PLATE COMPACTORS



Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity; it also ensures all the attachment settings are correct so you can get to work quickly and efficiently.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	C9.3B	
Engine Power – ISO 9249	232 kW	311 hp
Engine Power – ISO 14396	234 kW	314 hp
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in ³
HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	558 L/min (279 × 2 pumps) 147 gal/min (74 × 2 pumps)	
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	29 400 kPa	4,264 psi
SWING MECHANISM		
Swing Speed	8.75 rpm	
Maximum Swing Torque	144 kN·m	106,228 lbf·ft
WEIGHTS		
Operating Weight	37 200 kg	81,900 lb
Long undercarriage, Reach boom, R3.9DB (12'10") stick, GD 2.27 m ³ (2.97 yd ³) bucket, 850 mm (33") triple grouser shoes, 6.8 mt (14,991 lb) counterweight.		
SERVICE REFILL CAPACITIES		
Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive (each)	18 L	4.8 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic Tank	161 L	42.5 gal
DEF Tank	80 L	21.1 gal

AIR CONDITIONING SYSTEM		
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant, which has a CO ₂ equivalent of 1.430 metric tonnes.		
DIMENSIONS		
Boom	Reach Boom 6.5 m (21'4")	
Stick	Reach Stick 3.9 m (12'10")	
Bucket	GDC 2.27 m³ (2.97 yd³)	
Shipping Height (top of cab)	3170 mm	10'4"
Handrail Height	3160 mm	10'4"
Shipping Length	11 200 mm	36'8"
Tail Swing Radius	3530 mm	11'6"
Counterweight Clearance	1250 mm	4'1"
Ground Clearance	510 mm	1'8"
Track Length	5030 mm	16'6"
Track Length to Center of Rollers	4040 mm	13'3"
Track Gauge – Long Undercarriage	2590 mm	8'5"
Transport Width – 850 mm (33") Shoes	3440 mm	11'3"
WORKING RANGES AND FORCES		
Boom	Reach Boom 6.5 m (21'4")	
Stick	Reach Stick 3.9 m (12'10")	
Bucket	GDC 2.27 m³ (2.97 yd³)	
Maximum Digging Depth	8200 mm	26'10"
Maximum Reach at Ground Level	11 730 mm	38'5"
Maximum Cutting Height	10 740 mm	35'2"
Maximum Loading Height	7490 mm	24'6"
Minimum Loading Height	1900 mm	6'2"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8060 mm	26'5"
Maximum Vertical Wall Digging Depth	6360 mm	20'10"
Bucket Digging Force (ISO)	210 kN	47,160 lbf
Stick Digging Force (ISO)	144 kN	32,440 lbf

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

CAB	STANDARD	OPTIONAL
ROPS, sound suppression	•	
High-resolution 203 mm (8") LCD touchscreen monitor	•	
High-resolution 254 mm (10") LCD touchscreen monitor		•
Heated seat with air-adjustable suspension (<i>Deluxe only</i>)	•	
Heated and cooled seat with automatic adjustable suspension (<i>Premium only</i>)	•	
ENGINE	STANDARD	OPTIONAL
Cold start block heaters		•
Three selectable modes: Power, Smart, Eco	•	
Automatic engine speed control	•	
Up to 3300 m (10,830 ft) altitude capability	•	
52° C (126° F) high-ambient cooling capacity	•	
Hydraulic reverse fan		•
-18° C (0° F) cold start capability	•	
-32° C (-25° F) cold start capability		•
Double element air filter with integrated precleaner	•	
Remote disable	•	
Biodiesel capability up to B20	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
SmartBoom™		•
Boom and stick regeneration circuit	•	
Electronic main control valve	•	
Heavy lift mode		•
Automatic hydraulic oil warm up	•	
Reverse swing damping valve	•	
Automatic swing parking brake	•	
High performance hydraulic return filter	•	
Two speed travel	•	
Bio hydraulic oil capability	•	
Combined two-way auxiliary circuit		•
Medium-pressure auxiliary circuit		•
Cooling circuit		•
Quick coupler circuit		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Long undercarriage		•
Long Narrow undercarriage		•
Towing eye on base frame	•	
6.8 mt (14,991 lb) counterweight		•
7.56 mt (16,667 lb) counterweight		•
600 mm (24") double grouser, HD double grouser, triple grouser track shoes		•
700 mm (28") triple grouser track shoes		•
850 mm (33") triple grouser track shoes		•
BOOMS AND STICKS	STANDARD	OPTIONAL
6.18 m (20'3") Mass boom		•
6.5 m (21'4") Reach boom		•
6.5 m (21'4") HD Reach boom		•
2.55 m (8'4") stick		•
2.8 m (9'2") stick		•
3.2 m (10'6") stick		•
3.2 m (10'6") HD stick		•
3.9 m (12'10") stick		•
3.9 m (12'10") HD stick		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance-free 1,000 CCA batteries (x2)	•	
Centralized electrical disconnect switch	•	
LED chassis light, LH and RH boom lights, cab lights	•	
CAT TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link	•	
Cat GRADE with 2D	•	
Cat GRADE with Advanced 2D		•
Cat GRADE with 3D		•
Cat GRADE with Assist	•	
Cat PAYLOAD	•	
Cat E-Fence	•	
Lift Assist	•	
Remote Services capability	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped location of engine oil and fuel filters	•	
Scheduled Oil Sampling (S-O-S SM) ports	•	
QuickEvac™ maintenance ready		•
Electric refueling pump with auto shutoff		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Caterpillar One Key security system	•	
Lockable external tool/storage box	•	
Lockable door, fuel, and hydraulic tank locks	•	
Lockable fuel drain compartment	•	
Service platform with anti-skid plate and recessed bolts	•	
RH handrail and hand hold (ISO 2867:2011 compliant)	•	
Signaling/warning horn	•	
Ground-level secondary engine shutoff switch	•	
Rear and right-hand-sideview cameras	•	
360° visibility		•
Boom lowering check valve		•
Stick lowering check valve		•

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information, refer to the Technical Specifications brochures for the 336 GC and 336 models available at www.cat.com or your Cat dealer.



336

Hydraulic Excavator

500-71

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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336 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C9.3B	
Engine Power – ISO 9249	232 kW	311 hp
Engine Power – ISO 14396	234 kW	314 hp
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in³

- Meets U.S. EPA Tier 4 Final emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Rating at 1,800 rpm.

Swing Mechanism

Swing Speed	8.75 rpm	
Maximum Swing Torque	144 kN·m	106,228 lbf·ft

Weights

Operating Weight	37 200 kg	81,900 lb
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- Long undercarriage, Reach boom, R3.9DB (12'10") stick, GD 2.27 m³ (2.97 yd³) bucket, 850 mm (33") triple grouser shoes, 6.8 mt (14,991 lb) counterweight.

Track

Standard Track Shoes Width	850 mm	33 in
Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Optional Track Shoes Width	800 mm	31 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

Drive

Maximum Gradeability	35%/70%	
Maximum Travel Speed	4.7 km/h	2.9 mph
Maximum Drawbar Pull	295 kN	66,206 lbf

Hydraulic System

Main System – Maximum Flow – Implement	558 L/min (279 × 2 pumps)	147 gal/min (74 × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	29 400 kPa	4,264 psi
Boom Cylinder – Bore	150 mm	6 in
Boom Cylinder – Stroke	1440 mm	57 in
Stick Cylinder – Bore	170 mm	7 in
Stick Cylinder – Stroke	1738 mm	68 in
DB Bucket Cylinder – Bore	150 mm	6 in
DB Bucket Cylinder – Stroke	1151 mm	45 in
TB Bucket Cylinder – Bore	160 mm	6 in
TB Bucket Cylinder – Stroke	1356 mm	53 in

Service Refill Capacities

Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive (each)	18 L	4.8 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic Tank	161 L	42.5 gal
DEF Tank	80 L	21.1 gal

Standards

Brakes	ISO 10265:2008
Cab/FOGS	ISO 10262:1998
Cab/ROPS	ISO 12117-2:2008

Sound Performance

ISO 6395:2008 (external)	105 dB(A)
ISO 6396:2008 (inside cab)	73 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

336 Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	600 mm (24") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes		800 mm (31") Triple Grouser Shoes		850 mm (33") Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Base Frame with HD Track Rollers and Carrier Rollers								
6.8 mt (14,991 lb) Counterweight + Long Undercarriage Base Machine								
Reach Boom + R3.9DB (12'10") Stick + 2.27 m³ (2.97 yd³) GD Bucket	35 900 (79,200)	66.9 (9.7)	36 300 (80,000)	57.9 (8.4)	36 900 (81,400)	51.6 (7.5)	37 200 (81,900)	48.8 (7.1)
Reach Boom + R3.2DB (10'6") Stick + 2.27 m³ (2.97 yd³) GD Bucket	35 800 (78,900)	66.7 (9.7)	36 100 (79,700)	57.7 (8.4)	36 800 (81,100)	51.4 (7.5)	37 000 (81,600)	48.6 (7.1)
Mass Boom + M2.55TB (8'4") Stick + 2.41 m³ (3.15 yd³) SD Bucket	37 300 (82,300)	69.5 (10.1)	37 700 (83,100)	60.2 (8.7)	38 300 (84,500)	53.6 (7.8)	38 600 (85,000)	50.7 (7.4)
7.56 mt (16,667 lb) Counterweight + Long Undercarriage Base Machine								
Reach Boom + R3.9DB (12'10") Stick + 2.27 m³ (2.97 yd³) GD Bucket	36 800 (81,100)	68.5 (9.9)	37 200 (81,900)	59.3 (8.6)	37 800 (83,300)	52.8 (7.7)	38 000 (83,800)	50.0 (7.2)
Reach Boom + R3.2DB (10'6") Stick + 2.27 m³ (2.97 yd³) GD Bucket	36 600 (80,800)	68.3 (9.9)	37 000 (81,600)	59.1 (8.6)	37 600 (83,000)	52.6 (7.6)	37 900 (83,500)	49.8 (7.2)
Mass Boom + M2.55TB (8'4") Stick + 2.41 m³ (3.15 yd³) SD Bucket	38 200 (84,200)	71.1 (10.3)	38 600 (85,000)	61.6 (8.9)	39 200 (86,400)	54.8 (7.9)	39 400 (86,900)	51.8 (7.5)
HD Reach Boom + HD R3.9DB (12'10") Stick + 2.27 m³ (2.97 yd³) GD Bucket	37 200 (82,000)	69.3 (10.1)	37 600 (82,800)	60.0 (8.7)	38 200 (84,200)	53.4 (7.7)	38 400 (84,700)	50.5 (7.3)
HD Reach Boom + HD R3.2DB (10'6") Stick + 2.27 m³ (2.97 yd³) GD Bucket	37 000 (81,600)	69.0 (10.0)	37 400 (82,400)	59.7 (8.7)	38 000 (83,900)	53.1 (7.7)	38 200 (84,300)	50.3 (7.3)

All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

336 Hydraulic Excavator Specifications

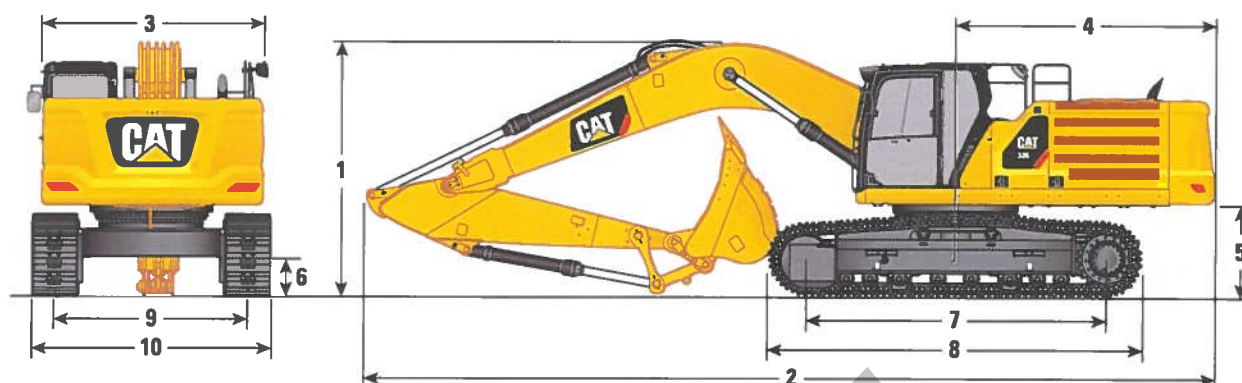
Major Component Weights

	kg	lb
Base machine with 6.8 mt (14,991 lb) counterweight, standard swing frame, base frame with HD track rollers and carrier rollers for long undercarriage	24 530	54,090
Base machine with 7.56 mt (16,667 lb) counterweight, HD swing frame, base frame with HD track rollers and carrier rollers for long undercarriage	25 390	55,980
Track Shoes:		
600 mm (24") Width, 15.5 mm (0.61") Thick, Triple Grouser Track Shoes	4090	9,020
700 mm (28") Width, 11 mm (0.43") Thick, Triple Grouser Track Shoes	4450	9,800
800 mm (31") Width, 13 mm (0.51") Thick, Triple Grouser Track Shoes	5100	11,230
850 mm (33") Width, 13 mm (0.51") Thick, Triple Grouser Track Shoes	5300	11,690
Two Boom Cylinders	670	1,470
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	550	1,210
Counterweights:		
6.8 mt Counterweight	6800	14,991
7.56 mt Counterweight	7560	16,667
Swing Frames:		
Standard Swing Frame	3160	6,960
HD Swing Frame	3260	7,180
Long Undercarriage:		
Base Frame with HD Track Rollers and Carrier Rollers	8400	18,520
Booms (including lines, pins, stick cylinder):		
Reach Boom 6.5 m (21'4")	3220	7,100
Mass Boom 6.18 m (20'3")	3480	7,670
HD Reach Boom 6.5 m (21'4")	3480	7,670
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R3.2DB (10'6")	1800	3,960
Reach Stick R3.9DB (12'10")	1950	4,310
Mass Stick M2.55TB (8'4")	2130	4,700
HD Reach Stick R3.2DB (10'6")	1930	4,250
HD Reach Stick R3.9DB (12'10")	2110	4,640
Buckets (without linkage):		
2.27 m³ (2.97 yd³) GD	1590	3,510
2.41 m³ (3.15 yd³) SD	2550	5,630
Quick Coupler:		
Pin Grabber QC	700	1,550

336 Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate and may vary depending on bucket selection.

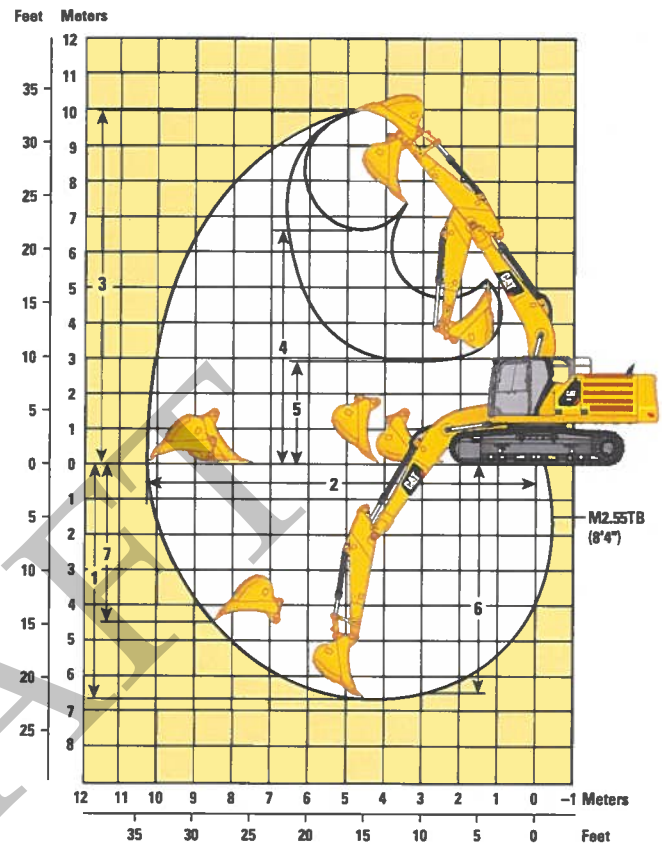
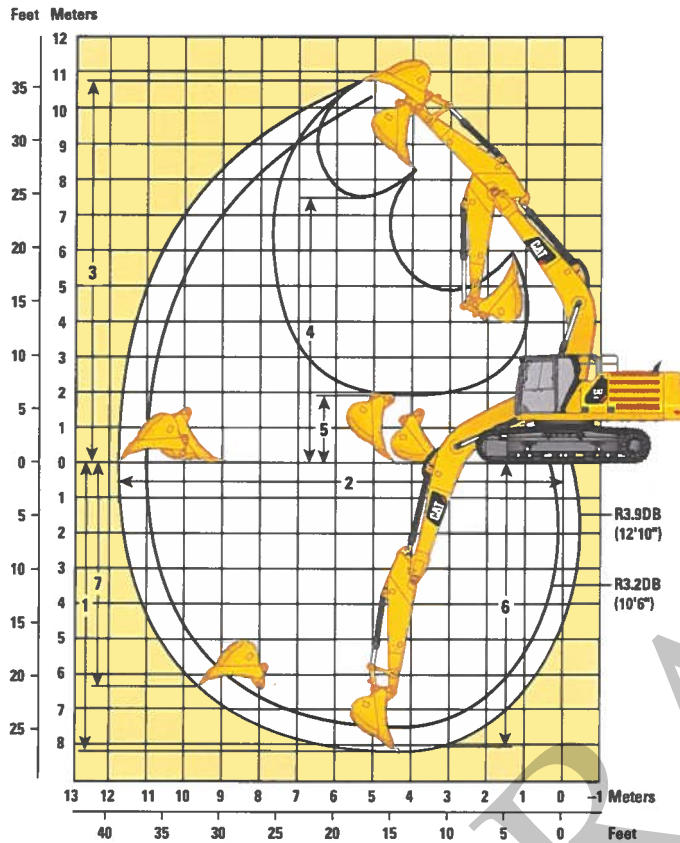


Boom Options		Reach Boom 6.5 m (21'4")				Mass Boom 6.18 m (20'3")	
Stick Options		Reach Stick				Mass Stick M2.55TB (8'4")	
		R3.9DB (12'10")		R3.2DB (10'6")			
1 Machine Height:							
Cab Height		3170 mm	10.4 ft	3170 mm	10.4 ft	3170 mm	10.4 ft
FOGS Height		3310 mm	10.9 ft	3310 mm	10.9 ft	3310 mm	10.9 ft
Handrails Height		3160 mm	10.4 ft	3160 mm	10.4 ft	3160 mm	10.4 ft
With Boom/Stick/Bucket Installed		3670 mm	12.0 ft	3470 mm	11.4 ft	3610 mm	11.8 ft
With Boom/Stick Installed		3560 mm	11.7 ft	3330 mm	10.9 ft	3400 mm	11.2 ft
With Boom Installed		2880 mm	9.4 ft	2880 mm	9.4 ft	2830 mm	9.3 ft
With Boom/Stick/Bucket Installed (with auxiliary lines)		3720 mm	12.2 ft	3520 mm	11.5 ft	3620 mm	11.9 ft
With Boom/Stick Installed (with auxiliary lines)		3620 mm	11.9 ft	3400 mm	11.2 ft	3420 mm	11.2 ft
With Boom Installed (with auxiliary lines)		2970 mm	9.7 ft	2970 mm	9.7 ft	2900 mm	9.5 ft
2 Machine Length:							
With Boom/Stick/Bucket Installed		11 200 mm	36.7 ft	11 170 mm	36.6 ft	10 890 mm	35.7 ft
With Boom/Stick Installed		11 180 mm	36.7 ft	11 140 mm	36.5 ft	10 850 mm	35.6 ft
With Boom Installed		9960 mm	32.7 ft	9960 mm	32.7 ft	9640 mm	31.6 ft
With Boom/Stick/Bucket Installed (with auxiliary lines)		11 200 mm	36.7 ft	11 170 mm	36.6 ft	10 890 mm	35.7 ft
With Boom/Stick Installed (with auxiliary lines)		11 180 mm	36.7 ft	11 140 mm	36.5 ft	10 850 mm	35.6 ft
With Boom Installed (with auxiliary lines)		10 010 mm	32.8 ft	10 010 mm	32.8 ft	9640 mm	31.6 ft
3 Upperframe Width without Walkways		3030 mm	9.9 ft	3030 mm	9.9 ft	3030 mm	9.9 ft
4 Tail Swing Radius		3530 mm	11.6 ft	3530 mm	11.6 ft	3530 mm	11.6 ft
5 Counterweight Clearance		1250 mm	4.1 ft	1250 mm	4.1 ft	1250 mm	4.1 ft
6 Ground Clearance		510 mm	1.7 ft	510 mm	1.7 ft	510 mm	1.7 ft
7 Track Length – Length to Center of Rollers		4040 mm	13.3 ft	4040 mm	13.3 ft	4040 mm	13.3 ft
8 Track Length		5030 mm	16.5 ft	5030 mm	16.5 ft	5030 mm	16.5 ft
9 Track Gauge – Extended (long undercarriage)		2590 mm	8.5 ft	2590 mm	8.5 ft	2590 mm	8.5 ft
10 Track Width/Undercarriage Width (with steps/without steps):							
600 mm (24") Shoes		3190 mm	10.5 ft	3190 mm	10.5 ft	3190 mm	10.5 ft
700 mm (28") Shoes		3290 mm	10.8 ft	3290 mm	10.8 ft	3290 mm	10.8 ft
800 mm (31") Shoes		3390 mm	11.1 ft	3390 mm	11.1 ft	3390 mm	11.1 ft
850 mm (33") Shoes		3440 mm	11.3 ft	3440 mm	11.3 ft	3440 mm	11.3 ft
Bucket Type		GDC		GDC		SDV	
Bucket Capacity		2.27 m³	2.97 yd³	2.27 m³	2.97 yd³	2.41 m³	3.15 yd³
Bucket Tip Radius		1760 mm	5.8 ft	1760 mm	5.8 ft	1910 mm	6.3 ft

336 Hydraulic Excavator Specifications

Working Ranges and Forces

All dimensions are approximate and may vary depending on bucket selection.



Boom Options

Reach Boom 6.5 m (21'4")

Mass Boom 6.18 m (20'3")

Stick Options

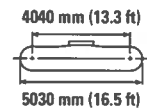
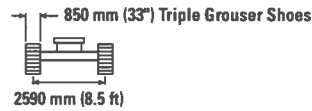
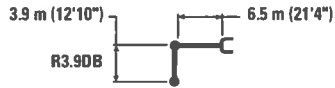
Reach Stick

Mass Stick

	R3.9DB (12'10")		R3.2DB (10'6")		M2.55TB (8'4")	
1 Maximum Digging Depth	8200 mm	26.9 ft	7500 mm	24.6 ft	6670 mm	21.9 ft
2 Maximum Reach at Ground Line	11 730 mm	38.5 ft	11 030 mm	36.2 ft	10 280 mm	33.7 ft
3 Maximum Cutting Height	10 740 mm	35.2 ft	10 320 mm	33.9 ft	9970 mm	32.7 ft
4 Maximum Loading Height	7490 mm	24.6 ft	7100 mm	23.3 ft	6600 mm	21.7 ft
5 Minimum Loading Height	1900 mm	6.2 ft	2600 mm	8.5 ft	2910 mm	9.5 ft
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8060 mm	26.4 ft	7340 mm	24.1 ft	6490 mm	21.3 ft
7 Maximum Vertical Wall Digging Depth	6360 mm	20.9 ft	5560 mm	18.2 ft	4480 mm	14.7 ft
Bucket Digging Force (ISO)	210 kN	47,160 lbf	210 kN	47,160 lbf	265 kN	59,570 lbf
Stick Digging Force (ISO)	144 kN	32,440 lbf	166 kN	37,300 lbf	191 kN	42,890 lbf
Bucket Type	GDC		GDC		SDV	
Bucket Capacity	2.27 m ³	2.97 yd ³	2.27 m ³	2.97 yd ³	2.41 m ³	3.15 yd ³
Bucket Tip Radius	1760 mm	5.8 ft	1760 mm	5.8 ft	1910 mm	6.3 ft

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft	
																	
9.0 m 30.0 ft	kg lb														*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 *17,050				*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	7900 16,900	*7500 *14,450	5800 12,450		*5600 *12,350	5450 12,050	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250		7650 16,400	*8250 *18,000	5700 12,250		*5650 *12,400	4900 10,850	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	*15 400 *33,100	*11 650 *25,200	10 150 21,900	*9800 *21,250	7300 15,750	8550 18,400	5550 11,900		*5800 *12,750	4600 10,150	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	14 450 31,100	*13 400 *28,950	9600 20,700	*10 800 *23,400	7000 15,100	8400 18,050	5400 11,550		*6150 *13,500	4500 9,900	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	13 850 29,750	*14 600 *31,650	9200 19,800	10 750 23,100	6750 14,550	8250 17,700	5250 11,250		*6700 *14,750	4550 10,050	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	13 600 29,250	14 800 31,850	9000 19,350	10 600 22,750	6600 14,250	8150 17,550	5150 11,150		7600 16,700	4800 10,600	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	13 600 29,250	*14 750 31,700	8950 19,250	10 550 22,700	6600 14,200				8500 18,800	5400 11,900	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	13 800 29,750	*13 300 *28,500	9050 19,500	*10 000 *21,000	6700 14,550				*9550 *21,000	6500 14,550	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 *20,400	9450						*9300 *20,400	9300 *20,400	6.06 20.00



ISO 10567



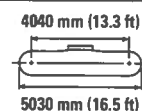
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 *17,050			*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	7850 16,850	*7500 *14,450	5800 12,350	*5600 *12,350	5400 12,000	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	7600 16,350	*8250 *18,000	5700 12,200	*5650 *12,400	4900 10,750	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	*15 400 *33,100	*11 650 *25,200	10 100 21,800	*9800 *21,250	7300 15,650	8550 18,300	5500 11,850	*5800 *12,750	4600 10,100	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	14 400 30,950	*13 400 *28,950	9550 20,600	*10 800 *23,400	6950 15,000	8350 17,950	5350 11,500	*6150 *13,500	4500 9,850	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	13 750 29,600	*14 600 *31,650	9150 19,700	10 700 23,000	6750 14,500	8200 17,600	5200 11,200	*6700 *14,750	4550 10,000	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	13 550 29,100	14 750 31,650	8950 19,250	10 550 22,650	6600 14,150	8100 17,450	5150 11,050	7550 16,650	4800 10,550	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	13 550 29,100	14 700 31,550	8900 19,150	10 500 22,600	6550 14,100			8450 18,700	5350 11,850	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	13 750 29,550	*13 300 *28,500	9000 19,400	*10 000 *21,000	6700 14,450			*9550 *21,000	6500 14,450	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 20,900	9400					*9300 *20,400	9300 20,400	6.06 20.00



ISO 10567



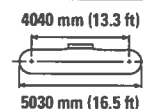
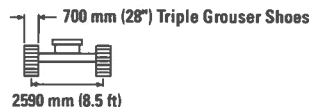
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Lift capacity stays with ±5% for all available track shoes.

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336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 16,800			*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	7750 16,600	*7500 *14,450	5700 12,200	*5600 *12,350	5350 11,800	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	7500 16,100	*8250 *18,000	5600 12,000	*5650 *12,400	4800 10,600	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	15 250 32,900	*11 650 *25,200	9950 21,450	*9800 *21,250	7150 15,450	8400 18,000	5450 11,650	*5800 *12,750	4500 9,950	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	14 150 30,500	*13 400 *28,950	9400 20,250	10 800 23,200	6850 14,750	8200 17,650	5250 11,300	*6150 *13,500	4400 9,650	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	13 550 29,150	*14 600 *31,650	9000 19,400	10 500 22,600	6600 14,250	8050 17,300	5100 11,000	*6700 *14,750	4450 9,800	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	13 300 28,600	14 500 31,150	8800 18,900	10 350 22,250	6450 13,950	7950 17,150	5050 10,850	7400 16,350	4700 10,400	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	13 300 28,650	14 450 31,000	8750 18,800	10 300 22,200	6450 13,850			8300 18,350	5250 11,650	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	13 550 29,100	*13 300 *28,500	8850 19,100	*10 000 *21,000	6550 14,200			*9550 *21,000	6400 14,200	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 9250						*9300 *20,400	9150 *20,400	6.06 20.00



ISO 10567



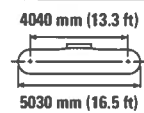
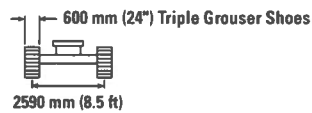
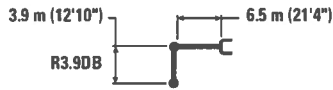
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Lift capacity stays with ±5% for all available track shoes.

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336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 16,700			*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	7650 16,450	*7500 *14,450	5650 12,050	*5600 *12,350	5300 11,700	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	7400 15,950	*8250 *18,000	5550 11,900	*5650 *12,400	4750 10,500	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	15 150 32,650	*11 650 *25,200	9900 21,300	*9800 *21,250	7100 15,300	8300 17,850	5400 11,550	*5800 *12,750	4450 9,850	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	14 050 30,250	*13 400 *28,950	9350 20,100	10 700 23,000	6800 14,650	8100 17,450	5200 11,200	*6150 *13,500	4350 9,600	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	13 400 28,900	14 600 31,400	8900 19,200	10 400 22,400	6550 14,100	7950 17,150	5100 10,900	*6700 *14,750	4400 9,700	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	13 200 28,350	14 350 30,850	8700 18,750	10 250 22,050	6400 13,800	7900 17,000	5000 10,750	7350 16,200	4650 10,250	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	13 200 28,400	14 300 30,750	8650 18,650	10 200 22,000	6400 13,750			8200 18,200	5200 11,500	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	13 400 28,850	*13 300 *28,500	8800 18,950	*10 000 *21,000	6500 14,100			*9550 *21,000	6300 14,100	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 9150						*9300 *20,400	9050 *20,400	6.06 20.00



ISO 10567



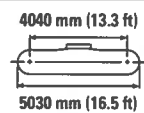
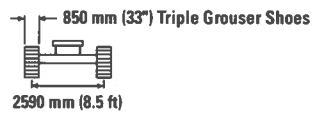
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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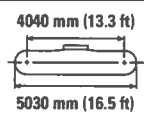
336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
7.5 m 25.0 ft	kg						*8750	7800			*7400	*7400	7.70
	lb										*16,300	*16,300	25.00
6.0 m 20.0 ft	kg						*8950	7750			*7200	6200	8.58
	lb						*19,550	16,650			*15,800	13,800	28.33
4.5 m 15.0 ft	kg		*13 550	*13 550	*10 950	10 550	*9600	7550	*8500	5650	*7250	5500	9.13
	lb				*23,650	22,750	*20,900	16,200			*15,900	12,200	30.00
3.0 m 10.0 ft	kg		*17 200	15 100	*12 650	10 000	*10 500	7250	8550	5550	*7500	5150	9.41
	lb		*37,000	32,600	*27,400	21,550	*22,800	15,650	18,350	11,900	*16,500	11,400	30.83
1.5 m 5.0 ft	kg		*19 850	14 200	*14 200	9500	11 000	7000	8400	5400	7850	5050	9.44
	lb		*42,800	30,600	*30,700	20,500	23,650	15,050	18,050	11,600	17,250	11,100	31.67
0 m 0 ft	kg		*20 700	13 800	15 050	9200	10 750	6800	8300	5300	8000	5150	9.22
	lb		*44,850	29,700	32,350	19,850	23,200	14,650	17,850	11,400	17,650	11,300	30.83
-1.5 m -5.0 ft	kg	*14 100	*14 100	*20 300	13 750	14 900	9050	10 650	6700		8600	5500	8.75
	lb	*31,850	*31,850	*44,050	29,550	32,000	19,550	22,950	14,450		19,000	12,100	29.17
-3.0 m -10.0 ft	kg	*22 200	*22 200	*18 850	13 850	*14 350	9100	10 700	6750		9900	6250	7.96
	lb	*50,250	*50,250	*40,800	29,750	*31,050	19,600	23,100	14,550		21,900	13,850	26.67
-4.5 m -15.0 ft	kg	*21 250	*21 250	*16 000	14 150	*12 150	9300				*10 250	8000	6.75
	lb	*45,750	*45,750	*34,400	30,450	*25,800	20,100				*22,550	17,850	22.50

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
7.5 m 25.0 ft	kg						*8750	7800			*7400	*7400	7.70
	lb										*16,300	*16,300	25.00
6.0 m 20.0 ft	kg						*8950	7700			*7200	6150	8.58
	lb						*19,550	16,600			*15,800	13,700	28.33
4.5 m 15.0 ft	kg		*13 550	*13 550	*10 950	10 500	*9600	7500	*8500	5650	*7250	5500	9.13
	lb				*23,650	22,650	*20,900	16,150			*15,900	12,150	30.00
3.0 m 10.0 ft	kg		*17 200	15 050	*12 650	9950	*10 500	7200	8500	5500	*7500	5150	9.41
	lb		*37,000	32,450	*27,400	21,450	*22,800	15,550	18,250	11,800	*16,500	11,300	30.83
1.5 m 5.0 ft	kg		*19 850	14 150	*14 200	9450	10 950	6950	8350	5350	7800	5000	9.44
	lb		*42,800	30,450	*30,700	20,400	23,500	15,000	17,950	11,550	17,150	11,050	31.67
0 m 0 ft	kg		*20 700	13 750	15 000	9150	10 700	6750	8250	5300	7950	5100	9.22
	lb		*44,850	29,550	32,200	19,700	23,050	14,550	17,750	11,350	17,550	11,250	30.83
-1.5 m -5.0 ft	kg	*14 100	*14 100	*20 300	13 650	14 800	9000	10 600	6650		8550	5450	8.75
	lb	*31,850	*31,850	*44,050	29,400	31,850	19,450	22,850	14,350		18,850	12,050	29.17
-3.0 m -10.0 ft	kg	*22 200	*22 200	*18 850	13 750	*14 350	9050	10 650	6700		9850	6250	7.96
	lb	*50,250	*50,250	*40,800	29,600	*31,050	19,500	22,950	14,500		21,750	13,800	26.67
-4.5 m -15.0 ft	kg	*21 250	*21 250	*16 000	14 050	*12 150	9250				*10 250	7950	6.75
	lb	*45,750	*45,750	*34,400	30,300	*25,800	20,000				*22,550	17,750	22.50



ISO 10567



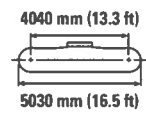
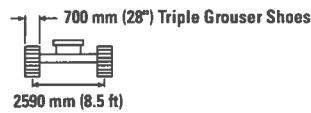
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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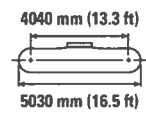
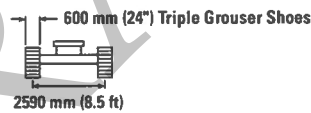
336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
7.5 m 25.0 ft	kg lb							*8750 19,550	7700 16,350			*7400 16,300	7350 16,300	7.70 25.00
6.0 m 20.0 ft	kg lb							*8950 19,550	7600 16,350			*7200 15,800	6100 13,500	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 550 30,000	*13 550 30,000	*10 950 23,650	10 350 22,300	*9600 20,900	7400 15,900	*8500 18,750	5550 12,350	*7250 15,900	5400 11,950	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 200 37,000	14 800 31,950	*12 650 27,400	9800 21,150	*10 500 22,800	7100 15,300	8350 17,950	5400 11,650	*7500 16,500	5050 11,150	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 850 42,800	13 900 30,000	*14 200 30,700	9300 20,100	10 750 23,150	6850 14,750	8200 17,650	5300 11,350	7650 16,850	4950 10,850	9.44 31.67
0 m 0 ft	kg lb			*20 700 44,850	13 550 29,100	14 750 31,650	9000 19,400	10 550 22,650	6650 14,300	8100 17,450	5200 11,150	7850 17,250	5000 11,050	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 100 31,850	*14 100 31,850	*20 300 44,050	13 450 28,900	14 550 31,300	8900 19,100	10 450 22,450	6550 14,150			8400 18,550	5350 11,800	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 200 50,250	*22 200 50,250	*18 850 40,800	13 550 29,150	*14 350 31,050	8900 19,200	10 500 22,550	6600 14,250			9650 21,400	6150 13,550	7.96 26.67
-4.5 m -15.0 ft	kg lb	*21 250 45,750	*21 250 45,750	*16 000 34,400	13 850 29,800	*12 150 25,800	9100 19,700					*10 250 22,550	7800 17,500	6.75 22.50

Reach Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
														
7.5 m 25.0 ft	kg lb							*8750 19,550	7600 16,200			*7400 16,300	7250 16,300	7.70 25.00
6.0 m 20.0 ft	kg lb							*8950 19,550	7550 16,200			*7200 15,800	6050 13,400	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 550 30,000	*13 550 30,000	*10 950 23,650	10 300 22,150	*9600 20,900	7350 15,750	8400 18,700	5500 12,300	*7250 15,900	5350 11,850	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 200 37,000	14 700 31,700	*12 650 27,400	9700 20,950	*10 500 22,800	7050 15,200	8300 17,800	5350 11,500	*7500 16,500	5000 11,050	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 850 42,800	13 800 29,700	*14 200 30,700	9250 19,900	10 650 22,900	6800 14,600	8150 17,500	5250 11,250	7600 16,700	4900 10,750	9.44 31.67
0 m 0 ft	kg lb			*20 700 44,850	13 400 28,850	14 600 31,350	8950 19,250	10 450 22,450	6600 14,200	8050 17,300	5150 11,050	7750 17,100	4950 10,950	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 100 31,850	*14 100 31,850	*20 300 44,050	13 350 28,650	14 450 31,000	8800 18,950	10 350 22,250	6500 14,000			8350 18,350	5300 11,700	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 200 50,250	*22 200 50,250	*18 850 40,800	13 450 28,900	*14 350 31,050	8800 19,000	10 400 22,350	6550 14,100			9550 21,200	6050 13,450	7.96 26.67
-4.5 m -15.0 ft	kg lb	*21 250 45,750	*21 250 45,750	*16 000 34,400	13 750 29,550	*12 150 25,800	9050 19,500					*10 250 22,550	7750 17,300	6.75 22.50



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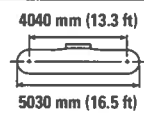
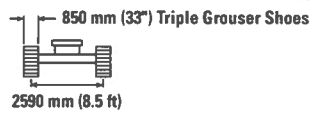
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

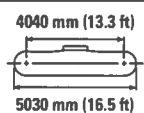
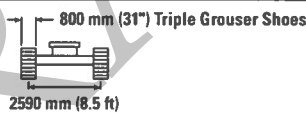
336 Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft			
7.5 m	kg					*10 150	*10 150			*9000	*9000
25.0 ft	lb					*22,350	*22,350			*19,900	*19,900
6.0 m	kg					*10 500	*10 500	*9800	7350	*8550	7150
20.0 ft	lb					*22,850	22,800			*18,850	15,950
4.5 m	kg			*14 650	*14 650	*11 650	10 150	*10 200	7150	*8550	6200
15.0 ft	lb			*31,550	*31,550	*25,250	21,850	*22,300	15,400	*18,800	13,650
3.0 m	kg			*18 000	14 500	*13 150	9600	*10 900	6900	*8900	5700
10.0 ft	lb			*38,650	31,300	*28,450	20,700	*23,550	14,900	*19,500	12,550
1.5 m	kg			*20 000	13 700	*14 350	9150	10 700	6700	8800	5550
5.0 ft	lb			*43,150	29,450	*31,050	19,650	23,000	14,350	19,350	12,150
0 m	kg			*20 200	13 400	14 750	8850	10 500	6500	9050	5700
0 ft	lb			*43,800	28,800	31,650	19,100	22,600	14,050	19,950	12,500
-1.5 m	kg	*17 800	*17 800	*19 200	13 400	*14 500	8800	10 500	6500	10 000	6200
-5.0 ft	lb	*40,400	*40,400	*41,600	28,800	*31,400	18,950	22,600	14,000	22,000	13,700
-3.0 m	kg	*22 000	*22 000	*16 950	13 650	*12 900	8950			*10 600	7450
-10.0 ft	lb	*47,800	*47,800	*36,600	29,300	*27,650	19,250			*23,350	16,550
-4.5 m	kg			*12 450	*12 450					*9850	*9850
-15.0 ft	lb			*26,300	*26,300					*21,500	*21,500

Mass Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft			
7.5 m	kg					*10 150	*10 150			*9000	*9000
25.0 ft	lb					*22,350	*22,350			*19,900	*19,900
6.0 m	kg					*10 500	*10 500	*9800	7300	*8550	7150
20.0 ft	lb					*22,850	22,700			*18,850	15,900
4.5 m	kg			*14 650	*14 650	*11 650	10 100	*10 200	7150	*8550	6150
15.0 ft	lb			*31,550	*31,550	*25,250	21,750	*22,300	15,350	*18,800	13,600
3.0 m	kg			*18 000	14 450	*13 150	9550	*10 900	6900	*8900	5650
10.0 ft	lb			*38,650	31,150	*28,450	20,600	*23,450	14,800	*19,500	12,450
1.5 m	kg			*20 000	13 600	*14 350	9100	10 650	6650	8750	5500
5.0 ft	lb			*43,150	29,300	*31,050	19,550	22,850	14,300	19,250	12,100
0 m	kg			*20 200	13 350	14 650	8800	10 450	6500	9000	5650
0 ft	lb			*43,800	28,650	31,450	19,000	22,500	13,950	19,850	12,400
-1.5 m	kg	*17 800	*17 800	*19 200	13 350	*14 500	8750	10 450	6450	9950	6200
-5.0 ft	lb	*40,400	*40,400	*41,600	28,650	31,300	18,850	22,500	13,950	21,900	13,600
-3.0 m	kg	*22 000	*22 000	*16 950	13 550	*12 900	8900			*10 600	7400
-10.0 ft	lb	*47,800	*47,800	*36,600	29,150	*27,650	19,150			*23,350	16,450
-4.5 m	kg			*12 450	*12 450					*9850	*9850
-15.0 ft	lb			*26,300	*26,300					*21,500	*21,500



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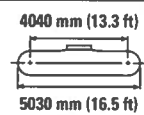
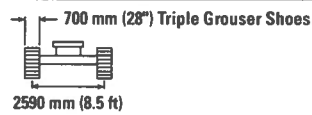
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

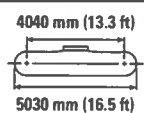
336 Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
											
7.5 m 25.0 ft	kg lb				*10 150 *22,350	*10 150 *22,350			*9000 *19,900	*9000 *19,900	6.58 21.67
6.0 m 20.0 ft	kg lb				*10 500 *22,850	10 400 22,400	*9800	7200	*8550 *18,850	7000 15,650	7.60 25.00
4.5 m 15.0 ft	kg lb		*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	9950 21,450	*10 200 *22,300	7050 15,100	*8550 *18,800	6050 13,400	8.21 27.50
3.0 m 10.0 ft	kg lb		*18 000 *38,650	14 200 30,700	*13 150 *28,450	9400 20,250	10 700 23,050	6750 14,550	8800 19,350	5550 12,250	8.52 28.33
1.5 m 5.0 ft	kg lb		*20 000 *43,150	13 400 28,850	*14 350 *31,050	8950 19,250	10 450 22,450	6550 14,050	8600 18,900	5400 11,900	8.55 28.33
0 m 0 ft	kg lb		*20 200 *43,800	13 100 28,200	14 400 30,950	8650 18,650	10 300 22,100	6350 13,700	8850 19,500	5550 12,200	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	13 100 28,200	14 300 30,750	10 250 22,100	6350 13,700	9750 21,500	6050 13,400	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	13 350 28,700	*12 900 *27,650			*10 600 *23,350	7300 16,200	6.88 22.50
-4.5 m -15.0 ft	kg lb			*12 450 *26,300	*12 450 *26,300				*9850 *21,500	*9850 *21,500	5.43 17.50

Mass Boom Lift Capacities – Counterweight: 6.8 mt (14,991 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
											
7.5 m 25.0 ft	kg lb				*10 150 *22,350	*10 150 *22,350			*9000 *19,900	8950 *19,900	6.58 21.67
6.0 m 20.0 ft	kg lb				*10 500 *22,850	10 350 22,250	*9800	7100	*8550 *18,850	6950 15,500	7.60 25.00
4.5 m 15.0 ft	kg lb		*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	9850 21,250	*10 200 *22,300	6950 14,950	*8550 *18,800	6000 13,250	8.21 27.50
3.0 m 10.0 ft	kg lb		*18 000 *38,650	14 100 30,450	*13 150 *28,450	9300 20,100	10 600 22,850	6700 14,450	8700 19,150	5500 12,150	8.52 28.33
1.5 m 5.0 ft	kg lb		*20 000 *43,150	13 250 28,600	*14 350 *31,050	8850 19,100	10 350 22,250	6450 13,900	8500 18,700	5350 11,750	8.55 28.33
0 m 0 ft	kg lb		*20 200 *43,800	13 000 27,950	14 250 30,650	8600 18,500	10 200 21,900	6300 13,600	8800 19,300	5500 12,100	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	13 000 27,950	14 200 30,500	10 150 21,900	6300 13,550	9650 21,300	6000 13,250	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	13 200 28,400	*12 900 *27,650			*10 600 *23,350	7250 16,050	6.88 22.50
-4.5 m -15.0 ft	kg lb			*12 450 *26,300	*12 450 *26,300				*9850 *21,500	*9850 *21,500	5.43 17.50



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* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

3.9 m (12'10")
6.5 m (21'4")
R3.9DB

850 mm (33") Triple Grouser Shoes
2590 mm (8.5 ft)

4040 mm (13.3 ft)
5030 mm (16.5 ft)

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 *17,050			*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	*8050 *17,600	*7500 *14,450	6150 13,200	*5600 *12,350	*5600 *12,350	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	8050 17,350	*8250 *18,000	6050 13,000	*5650 *12,400	5200 11,550	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	*15 400 *33,100	10 750 *25,200	9800 23,150	*7750 *21,250	7750 16,700	*8750 *19,050	5900 12,700	*5800 *12,750	4900 10,850	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	15 300 33,000	*13 400 *28,950	10 200 21,950	*10 800 *23,400	7450 16,050	8850 19,000	5750 12,350	*6150 *13,500	4800 10,600	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	14 700 31,600	*14 600 *31,650	9800 21,050	11 300 24,350	7200 15,500	8700 18,650	5600 12,050	*6700 *14,750	4900 10,700	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	14 450 31,100	*15 100 *32,650	9550 20,600	11 150 24,000	7050 15,200	8600 18,500	5500 11,900	*7600 *16,800	5150 11,350	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	14 450 31,100	*14 750 *31,850	9500 20,500	11 100 23,900	7050 15,150			8950 19,800	5750 12,700	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	14 700 31,600	*13 300 *28,500	9650 20,800	*10 000 *21,000	7150 15,500			*9550 *21,000	6950 15,500	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 *9500						*9300 *20,400	*9300 *20,400	6.06 20.00



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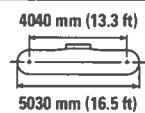
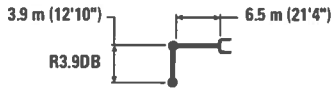
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Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 *17,050			*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	*8050 *17,600	*7500 13,150	6150	*5600 *12,350	*5600 *12,350	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	8050 17,300	*8250 *18,000	6050 12,950	*5650 *12,400	5200 11,450	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	*15 400 *33,100	*11 650 *25,200	10 700 23,050	*9800 *21,250	7700 16,600	*8750 *19,050	5850 12,600	*5800 *12,750	4900 10,800	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	15 250 32,850	*13 400 *28,950	10 150 21,850	*10 800 *23,400	7400 15,950	8800 18,900	5700 12,250	*6150 *13,500	4800 10,500	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	14 600 31,450	*14 600 *31,650	9750 20,950	*11 250 24,200	7150 15,450	8650 18,550	5550 11,950	*6700 *14,750	4850 10,650	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	14 400 30,950	*15 100 *32,650	9500 20,500	11 100 23,850	7000 15,100	8550 18,400	5500 11,850	*7600 *16,800	5150 11,300	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	14 400 30,950	*14 750 *31,850	9450 20,400	11 050 23,800	7000 15,050			8900 19,700	5700 12,650	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	14 600 31,450	*13 300 *28,500	9600 20,700	*10 000 *21,000	7100 15,400			*9550 *21,000	6900 15,400	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 *9500						*9300 *20,400	*9300 *20,400	6.06 20.00



ISO 10567



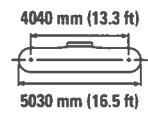
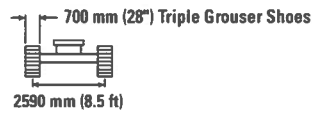
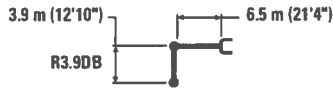
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 *17,050			*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	*8050 17,550	*7500 *14,450	6050 12,950	*5600 *12,350	*5600 *12,350	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	7900 17,050	*8250 *18,000	5950 12,750	*5650 *12,400	5100 11,300	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	*15 400 *33,100	*11 650 *25,200	10 550 22,750	*9800 *21,250	7600 16,400	*8750 18,950	5800 12,450	*5800 *12,750	4800 10,600	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	15 000 32,350	*13 400 *28,950	10 000 21,550	*10 800 *23,400	7300 15,700	8650 18,600	5600 12,050	*6150 *13,500	4700 10,350	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	14 400 31,000	*14 600 *31,650	9600 20,650	11 050 23,800	7050 15,200	8500 18,250	5500 11,800	*6700 *14,750	4750 10,500	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	14 150 30,500	*15 100 *32,650	9350 20,200	10 900 23,450	6900 14,850	8400 18,100	5400 11,650	*7600 *16,800	5050 11,100	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	14 200 30,500	*14 750 *31,850	9300 20,100	10 900 23,400	6900 14,800			8750 19,350	5650 12,450	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	14 400 30,950	*13 300 *28,500	9450 20,350	*10 000 *21,000	7000 15,150			*9550 *21,000	6800 15,150	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 *9500						*9300 *20,400	*9300 *20,400	6.06 20.00



ISO 10567



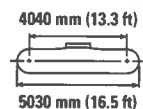
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft					
																m ft	
9.0 m 30.0 ft	kg lb														*6200 *13,800	*6200 *13,800	7.35 24.17
7.5 m 25.0 ft	kg lb									*7750 *17,050	*7750 *17,050				*5800 *12,750	*5800 *12,750	8.54 28.33
6.0 m 20.0 ft	kg lb									*8050 *17,600	*8050 17,400	*7500 *14,450	6000 12,850	*5600 *12,350	*5600 *12,350	*5600 *12,350	9.34 30.83
4.5 m 15.0 ft	kg lb							*9800 *21,250	*9800 *21,250	*8800 *19,150	7850 16,900	*8250 *18,000	5900 12,650	*5650 *12,400	5050 11,200	5050 11,200	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 400 *33,100	*15 400 *33,100	*11 650 *25,200	10 450 22,550	*9800 *21,250	7550 16,250	*8750 18,800	5750 12,300	*5800 *12,750	4750 10,500	4750 10,500	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 600 *40,050	14 900 32,100	*13 400 *28,950	9900 21,350	*10 800 *23,400	7250 15,600	8550 18,400	5550 11,950	*6150 *13,500	4650 10,250	4650 10,250	10.13 33.33
0 m 0 ft	kg lb			*8250 *18,750	*8250 *18,750	*20 250 *43,800	14 300 30,750	*14 600 *31,650	9500 20,450	10 950 23,600	7000 15,050	8400 18,100	5450 11,650	*6700 *14,750	4750 10,400	4750 10,400	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8650 *19,250	*8650 *19,250	*12 900 *29,150	*12 900 *29,150	*20 500 *44,400	14 050 30,200	*15 100 *32,500	9300 20,000	10 800 23,250	6850 14,750	8350 17,950	5350 11,550	*7600 *16,800	5000 11,000	5000 11,000	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 650 *30,550	*13 650 *30,550	*18 800 *42,550	*18 800 *42,550	*19 650 *42,500	14 050 30,250	*14 750 *31,850	9250 19,900	10 800 23,200	6800 14,700			8700 19,200	5600 12,300	5600 12,300	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 600 *44,050	*19 600 *44,050	*24 300 *52,400	*24 300 *52,400	*17 500 *37,750	14 250 30,700	*13 300 *28,500	9350 20,200	*10 000 *21,000	6950 15,050			*9550 *21,000	6750 15,050	6750 15,050	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 *9500						*9300 *20,400	*9300 *20,400	*9300 *20,400	6.06 20.00



ISO 10567



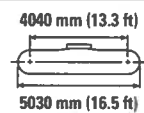
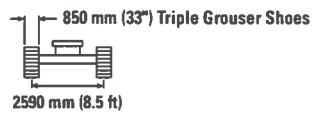
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Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

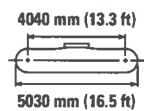
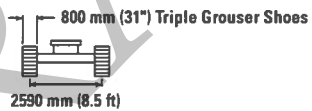
336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
													
7.5 m 25.0 ft	kg lb						*8750 8250				*7400 *16,300	*7400 *16,300	7.70 25.00
6.0 m 20.0 ft	kg lb						*8950 *19,550	8200 17,600			*7200 *15,800	6600 14,600	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 550 13 550	*13 550 13 550	*10 950 *23,650	*10 950 *23,650	*9600 *20,900	8000 17,150	*8500 6000	*7250 *15,900	5850 12,950	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 200 *37,000	15 950 34,450	*12 650 *27,400	10 600 22,800	*10 500 *22,800	7700 16,600	9000 19,300	*7500 *16,500	5500 12,100	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 850 *42,800	15 050 32,450	*14 200 *30,700	10 100 21,750	*11 350 *24,600	7450 16,000	8850 19,000	*8050 *17,650	5350 11,800	9.44 31.67
0 m 0 ft	kg lb			*20 700 *44,850	14 700 31,600	*15 100 *32,650	9800 21,100	11 350 24,400	7250 15,600	8750 18,800	8450 18,600	5500 12,050	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 100 *31,850	*14 100 *31,850	*20 300 *44,050	14 600 31,400	*15 200 *32,850	9650 20,800	11 250 24,150	7150 15,400		9050 20,000	5850 12,900	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 200 *50,250	*22 200 *50,250	*18 850 *40,800	14 700 31,650	*14 350 *31,050	9700 20,850	*11 150 *23,850	7200 15,500		*10 200 *22,450	6650 14,750	7.96 26.67
-4.5 m -15.0 ft	kg lb	*21 250 *45,750	*21 250 *45,750	*16 000 *34,400	15 000 32,300	*12 150 *25,800	9900 21,350				*10 250 *22,550	8500 18,950	6.75 22.50

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
													
7.5 m 25.0 ft	kg lb						*8750 8250				*7400 *16,300	*7400 *16,300	7.70 25.00
6.0 m 20.0 ft	kg lb						*8950 *19,550	8150 17,550			*7200 *15,800	6550 14,550	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 550 13 550	*13 550 13 550	*10 950 *23,650	*10 950 *23,650	*9600 *20,900	7950 17,100	*8500 6000	*7250 *15,900	5850 12,900	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 200 *37,000	15 900 34,300	*12 650 *27,400	10 550 22,700	*10 500 *22,800	7650 16,500	8950 19,200	*7500 *16,500	5450 12,050	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 850 *42,800	15 000 32,300	*14 200 *30,700	10 050 21,650	*11 350 *24,600	7400 15,950	8800 18,900	*8050 *17,650	5350 11,750	9.44 31.67
0 m 0 ft	kg lb			*20 700 *44,850	14 600 31,450	*15 100 *32,650	9750 21,000	11 300 24,250	7200 15,500	8700 18,700	8400 18,500	5450 12,000	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 100 *31,850	*14 100 *31,850	*20 300 *44,050	14 550 31,250	*15 200 *32,850	9600 20,700	11 200 24,050	7100 15,300		9000 19,900	5800 12,850	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 200 *50,250	*22 200 *50,250	*18 850 *40,800	14 650 31,500	*14 350 *31,050	9650 20,750	*11 150 *23,850	7150 15,400		*10 200 *22,450	6650 14,700	7.96 26.67
-4.5 m -15.0 ft	kg lb	*21 250 *45,750	*21 250 *45,750	*16 000 *34,400	14 950 32,150	*12 150 *25,800	9850 21,250				*10 250 *22,550	8450 18,900	6.75 22.50



ISO 10567



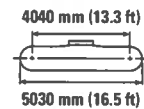
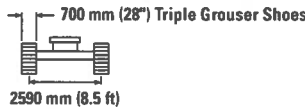
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

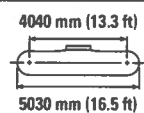
336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
													
7.5 m 25.0 ft	kg						*8750	8100			*7400	*7400	7.70
	lb										*16,300	*16,300	25.00
6.0 m 20.0 ft	kg						*8950	8050			*7200	6450	8.58
	lb						*19,550	17,300			*15,800	14,350	28.33
4.5 m 15.0 ft	kg		*13 550	*13 550	*10 950	*10 950	*9600	7850	*8500	5900	*7250	5750	9.13
	lb				*23,650	*23,600	*20,900	16,850			*15,900	12,700	30.00
3.0 m 10.0 ft	kg		*17 200	15 700	*12 650	10 400	*10 500	7550	8800	5750	*7500	5400	9.41
	lb		*37,000	33,850	*27,400	22,400	*22,800	16,250	18,900	12,400	*16,500	11,850	30.83
1.5 m 5.0 ft	kg		*19 850	14 800	*14 200	9900	11 300	7300	8650	5650	*8050	5250	9.44
	lb		*42,800	31,850	*30,700	21,350	24,350	15,700	18,600	12,100	*17,650	11,600	31.67
0 m 0 ft	kg		*20 700	14 400	*15 100	9600	11 100	7100	8550	5550	8250	5350	9.22
	lb		*44,850	30,950	*32,650	20,650	23,900	15,250	18,400	11,900	18,200	11,800	30.83
-1.5 m -5.0 ft	kg	*14 100	*14 100	*20 300	14 300	*15 200	9450	11 000	7000		8850	5750	8.75
	lb	*31,850	*31,850	*44,050	30,750	*32,850	20,350	23,650	15,100		19,550	12,650	29.17
-3.0 m -10.0 ft	kg	*22 200	*22 200	*18 850	14 400	*14 350	9500	11 050	7050		10 200	6550	7.96
	lb	*50,250	*50,250	*40,800	31,000	*31,050	20,450	23,800	15,200		*22,450	14,450	26.67
-4.5 m -15.0 ft	kg	*21 250	*21 250	*16 000	14 700	*12 150	9700				*10 250	8300	6.75
	lb	*45,750	*45,750	*34,400	31,650	*25,800	20,950				*22,550	18,600	22.50

Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
													
7.5 m 25.0 ft	kg						*8750	8050			*7400	*7400	7.70
	lb										*16,300	*16,300	25.00
6.0 m 20.0 ft	kg						*8950	8000			*7200	6400	8.58
	lb						*19,550	17,150			*15,800	14,200	28.33
4.5 m 15.0 ft	kg		*13 550	*13 550	*10 950	10 850	*9600	7750	*8500	5850	*7250	5700	9.13
	lb				*23,650	23,400	*20,900	16,700			*15,900	12,600	30.00
3.0 m 10.0 ft	kg		*17 200	15 550	*12 650	10 300	*10 500	7500	8700	5700	*7500	5350	9.41
	lb		*37,000	33,600	*27,400	22,200	*22,800	16,150	18,750	12,300	*16,500	11,750	30.83
1.5 m 5.0 ft	kg		*19 850	14 650	*14 200	9800	11 200	7200	8550	5600	8000	5200	9.44
	lb		*42,800	31,600	*30,700	21,150	24,150	15,550	18,450	12,000	17,600	11,450	31.67
0 m 0 ft	kg		*20 700	14 250	*15 100	9500	11 000	7050	8450	5500	8200	5300	9.22
	lb		*44,850	30,700	*32,650	20,500	23,650	15,150	18,250	11,800	18,000	11,700	30.83
-1.5 m -5.0 ft	kg	*14 100	*14 100	*20 300	14 200	*15 200	9400	10 900	6950		8800	5700	8.75
	lb	*31,850	*31,850	*44,050	30,500	*32,700	20,200	23,450	14,950		19,400	12,500	29.17
-3.0 m -10.0 ft	kg	*22 200	*22 200	*18 850	14 300	*14 350	9400	10 950	7000		10 100	6500	7.96
	lb	*50,250	*50,250	*40,800	30,750	*31,050	20,250	23,550	15,050		*22,350	14,350	26.67
-4.5 m -15.0 ft	kg	*21 250	*21 250	*16 000	14 600	*12 150	9600				*10 250	8250	6.75
	lb	*45,750	*45,750	*34,400	31,400	*25,800	20,750				*22,550	18,450	22.50



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

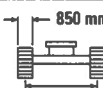
Mass Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

2.55 m (8'4") 6.18 m (20'3")

M2.55TB

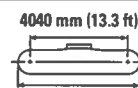


850 mm (33") Triple Grouser Shoes



2590 mm (8.5 ft)

4040 mm (13.3 ft)



5030 mm (16.5 ft)

	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg				*10 150	*10 150			*9000	*9000	6.58
	lb				*22,350	*22,350			*19,900	*19,900	21.67
6.0 m 20.0 ft	kg				*10 500	*10 500	*9800	7750	*8550	7600	7.60
	lb				*22,850	*22,850	*21,800	17,200	*18,850	16,950	25.00
4.5 m 15.0 ft	kg		*14 650	*14 650	*11 650	10 750	*10 200	7600	*8550	6550	8.21
	lb		*31,550	*31,550	*25,250	23,100	*22,300	16,350	*18,800	14,550	27.50
3.0 m 10.0 ft	kg		*18 000	15 350	*13 150	10 200	*10 900	7350	*8900	6050	8.52
	lb		*38,650	33,150	*28,450	21,950	*23,650	15,850	*19,500	13,350	28.33
1.5 m 5.0 ft	kg		*20 000	14 550	*14 350	9700	11 250	7100	9250	5900	8.55
	lb		*43,150	31,300	*31,050	20,950	24,200	15,300	20,400	13,000	28.33
0 m 0 ft	kg		*20 200	14 250	*14 900	9450	11 050	6950	9550	6050	8.31
	lb		*43,800	30,650	*32,250	20,350	23,850	15,000	21,050	13,350	27.50
-1.5 m -5.0 ft	kg	*17 800	*17 800	*19 200	14 250	*14 500	9350	11 050	6950	10 500	7.78
	lb	*40,400	*40,400	*41,600	30,700	*31,400	20,200	23,800	14,950	23,200	25.83
-3.0 m -10.0 ft	kg	*22 000	*22 000	*16 950	14 500	*12 900	9500			*10 600	6.88
	lb	*47,800	*47,800	*36,600	31,150	*27,650	20,500			*23,350	22.50
-4.5 m -15.0 ft	kg			*12 450	*12 450					*9850	5.43
	lb			*26,300	*26,300					*21,500	17.50

Mass Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

2.55 m (8'4") 6.18 m (20'3")

M2.55TB

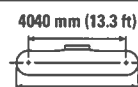


800 mm (31") Triple Grouser Shoes



2590 mm (8.5 ft)

4040 mm (13.3 ft)



5030 mm (16.5 ft)

	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg				*10 150	*10 150			*9000	*9000	6.58
	lb				*22,350	*22,350			*19,900	*19,900	21.67
6.0 m 20.0 ft	kg				*10 500	*10 500	*9800	7750	*8550	7550	7.60
	lb				*22,850	*22,850	*21,800	17,200	*18,850	16,850	25.00
4.5 m 15.0 ft	kg		*14 650	*14 650	*11 650	10 700	*10 200	7600	*8550	6550	8.21
	lb		*31,550	*31,550	*25,250	23,000	*22,300	16,300	*18,800	14,450	27.50
3.0 m 10.0 ft	kg		*18 000	15 300	*13 150	10 150	*10 900	7300	*8900	6050	8.52
	lb		*38,650	33,000	*28,450	21,850	*23,650	15,750	*19,500	13,300	28.33
1.5 m 5.0 ft	kg		*20 000	14 450	*14 350	9650	11 200	7100	9200	5850	8.55
	lb		*43,150	31,150	*31,050	20,850	24,100	15,250	20,300	12,900	28.33
0 m 0 ft	kg		*20 200	14 200	*14 900	9400	11 000	6900	9500	6050	8.31
	lb		*43,800	30,500	*32,250	20,250	23,700	14,900	20,950	13,250	27.50
-1.5 m -5.0 ft	kg	*17 800	*17 800	*19 200	14 200	*14 500	9350	11 000	6900	10 450	7.78
	lb	*40,400	*40,400	*41,600	30,550	*31,400	20,100	23,700	14,900	23,100	25.83
-3.0 m -10.0 ft	kg	*22 000	*22 000	*16 950	14 400	*12 900	9450			*10 600	6.88
	lb	*47,800	*47,800	*36,600	31,000	*27,650	20,400			*23,350	22.50
-4.5 m -15.0 ft	kg			*12 450	*12 450					*9850	5.43
	lb			*26,300	*26,300					*21,500	17.50



ISO 10567



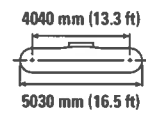
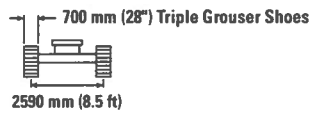
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

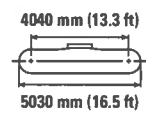
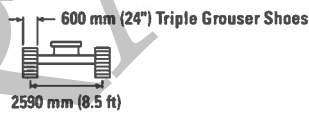
336 Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
											
7.5 m 25.0 ft	kg lb				*10 150 *22,350	*10 150 *22,350			*9000 *19,900	*9000 *19,900	6.58 21.67
6.0 m 20.0 ft	kg lb				*10 500 *22,850	*10 500 *22,850	*9800 7600		*8550 *18,850	7450 16,600	7.60 25.00
4.5 m 15.0 ft	kg lb		*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	10 550 22,700	*10 200 *22,300	7450 16,050	*8550 *18,800	6450 14,250	8.21 27.50
3.0 m 10.0 ft	kg lb		*18 000 *38,650	15 100 32,550	*13 150 *28,450	10 000 21,500	*10 900 *23,650	7200 15,500	*8900 *19,500	5950 13,100	8.52 28.33
1.5 m 5.0 ft	kg lb		*20 000 *43,150	14 250 30,700	*14 350 *31,050	9500 20,500	11 000 23,700	6950 15,000	9050 19,950	5800 12,700	8.55 28.33
0 m 0 ft	kg lb		*20 200 *43,800	13 950 30,050	*14 900 *32,250	9250 19,900	10 850 23,300	6800 14,650	9350 20,600	5950 13,050	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	14 000 30,050	*14 500 *31,400	9200 19,750	10 800 23,300	6800 14,650	10 300 22,700	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	14 200 30,550	*12 900 *27,650	9300 20,100		*10 600 *23,350	7800 17,250	6.88 22.50
-4.5 m -15.0 ft	kg lb			*12 450 *26,300	*12 450 *26,300				*9850 *21,500	*9850 *21,500	5.43 17.50

Mass Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



	3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
											
7.5 m 25.0 ft	kg lb				*10 150 *22,350	*10 150 *22,350			*9000 *19,900	*9000 *19,900	6.58 21.67
6.0 m 20.0 ft	kg lb				*10 500 *22,850	*10 500 *22,850	*9800 7550		*8550 *18,850	7400 16,500	7.60 25.00
4.5 m 15.0 ft	kg lb		*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	10 450 22,550	*10 200 *22,300	7400 15,900	*8550 *18,800	6400 14,150	8.21 27.50
3.0 m 10.0 ft	kg lb		*18 000 *38,650	14 950 32,300	*13 150 *28,450	9900 21,350	*10 900 *23,650	7150 15,400	*8900 *19,500	5900 12,950	8.52 28.33
1.5 m 5.0 ft	kg lb		*20 000 *43,150	14 150 30,450	*14 350 *31,050	9450 20,350	10 900 23,500	6900 14,850	9000 19,750	5750 12,600	8.55 28.33
0 m 0 ft	kg lb		*20 200 *43,800	13 850 29,800	*14 900 *32,250	9150 19,750	10 750 23,100	6750 14,550	9250 20,400	5900 12,950	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	13 850 29,800	*14 500 *31,400	9100 19,600	10 700 23,100	6750 14,500	10 200 22,500	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	14 100 30,300	*12 900 *27,650	9250 19,900		*10 600 *23,350	7700 17,100	6.88 22.50
-4.5 m -15.0 ft	kg lb			*12 450 *26,300	*12 450 *26,300				*9850 *21,500	*9850 *21,500	5.43 17.50



ISO 10567



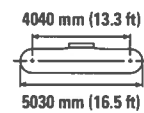
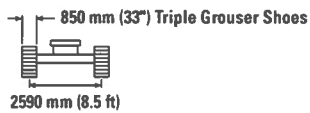
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Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
																m ft
9.0 m 30.0 ft	kg lb													*6150 *13,650	*6150 *13,650	7.35 24.17
7.5 m 25.0 ft	kg lb									*7600 *16,750	*7600 *16,750			*5700 *12,600	*5700 *12,600	8.54 28.33
6.0 m 20.0 ft	kg lb									*7900 *17,250	*7900 *17,250	*7400 *14,300	6050 12,950	*5550 *12,200	*5550 *12,200	9.34 30.83
4.5 m 15.0 ft	kg lb							*9650 *20,950	*9650 *20,950	*8650 *18,800	7950 17,150	*8050 *17,650	5950 12,750	*5550 *12,200	5100 11,250	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 200 *32,600	*15 200 *32,600	*11 450 *24,800	10 600 22,900	*9600 *20,900	7650 16,450	*8550 *18,650	5800 12,400	*5750 *12,600	4800 10,550	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 300 *39,450	15 100 32,550	*13 200 *28,500	10 050 21,600	*10 600 *22,950	7300 15,750	8700 18,700	5600 12,050	*6050 *13,350	4700 10,300	10.13 33.33
0 m 0 ft	kg lb			*8150 *18,600	*8150 *18,600	*19 950 *43,100	14 450 31,050	*14 350 *31,100	9600 20,650	11 150 24,050	7050 15,150	8550 18,400	5450 11,700	*6650 *14,600	4750 10,400	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8550 *19,050	*8550 *19,050	*12 850 *28,950	*12 850 *28,950	*20 200 *43,700	14 200 30,500	*14 850 *32,100	9350 20,150	11 000 23,650	6900 14,850	8450 18,200	5350 11,550	*7550 *16,650	5000 11,050	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 600 *30,400	*13 600 *30,400	*18 750 *42,400	*18 750 *42,400	*19 300 *41,800	14 200 30,550	*14 450 *31,300	9300 20,050	10 950 23,600	6850 14,750			8800 19,500	5600 12,350	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 550 *43,900	*19 550 *43,900	*23 900 *51,500	*23 900 *51,500	*17 200 *37,100	14 400 31,050	*13 050 *27,950	9450 20,350	*9750 *20,550	7000 15,150			*9350 *20,550	6800 15,150	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 100 *27,600	*13 100 *27,600	*9250 *20,350						*9100 *19,900	*9100 *19,900	6.06 20.00



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

3.9 m (12'10")
R3.9DB (HD)

800 mm (31") Triple Grouser Shoes
2590 mm (8.5 ft)

4040 mm (13.3 ft)
5030 mm (16.5 ft)

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
																
9.0 m	kg													*6150	*6150	7.35
30.0 ft	lb													*13,650	*13,650	24.17
7.5 m	kg									*7600	*7600			*5700	*5700	8.54
25.0 ft	lb									*16,750	*16,750			*12,600	*12,600	28.33
6.0 m	kg									*7900	*7900	*7400	6050	*5550	*5550	9.34
20.0 ft	lb									*17,250	*17,250	*14,300	12,900	*12,200	*12,200	30.83
4.5 m	kg							*9650	*9650	*8650	7950	*8050	5900	*5550	5100	9.84
15.0 ft	lb							*20,950	*20,950	*18,800	17,050	*17,650	12,700	*12,200	11,200	32.50
3.0 m	kg					*15 200	*15 200	*11 450	10 550	*9600	7600	*8550	5750	*5750	4750	10.10
10.0 ft	lb					*32,600	*32,600	*24,800	22,800	*20,900	16,350	*18,650	12,350	*12,600	10,500	33.33
1.5 m	kg					*18 300	15 050	*13 200	10 000	*10 600	7250	8650	5550	*6050	4650	10.13
5.0 ft	lb					*39,450	32,400	*28,500	21,500	*22,950	15,650	18,650	11,950	*13,350	10,250	33.33
0 m	kg			*8150	*8150	*19 950	14 350	*14 350	9550	11 100	7000	8500	5400	*6650	4700	9.93
0 ft	lb			*18,600	*18,600	*43,100	30,900	*31,100	20,550	23,900	15,100	18,300	11,650	*14,600	10,350	32.50
-1.5 m	kg	*8550	*8550	*12 850	*12 850	*20 200	14 100	*14 850	9300	10 950	6850	8400	5350	*7550	5000	9.49
-5.0 ft	lb	*19,050	*19,050	*28,950	*28,950	*43,700	30,350	*32,100	20,050	23,550	14,750	18,100	11,500	*16,650	11,000	31.67
-3.0 m	kg	*13 600	*13 600	*18 750	*18 750	*19 300	14 150	*14 450	9250	10 900	6800			8750	5550	8.77
-10.0 ft	lb	*30,400	*30,400	*42,400	*42,400	*41,800	30,400	*31,300	19,950	23,450	14,700			19,400	12,300	29.17
-4.5 m	kg	*19 550	*19 550	*23 900	*23 900	*17 200	14 350	*13 050	9400	*9750	6950			*9350	6750	7.69
-15.0 ft	lb	*43,900	*43,900	*51,500	*51,500	*37,100	30,900	*27,950	20,250	*20,550	15,050			*20,550	15,050	25.00
-6.0 m	kg					*13 100	*13 100	*9250	*9250					*9100	*9100	6.06
-20.0 ft	lb					*27,600	*27,600							*19,900	*19,900	20.00



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

3.9 m (12'10")
R3.9DB (HD)

700 mm (28") Triple Grouser Shoes
2590 mm (8.5 ft)

4040 mm (13.3 ft)
5030 mm (16.5 ft)

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
																
9.0 m 30.0 ft	kg lb													*6150 *13,650	*6150 *13,650	7.35 24.17
7.5 m 25.0 ft	kg lb									*7600 *16,750	*7600 *16,750			*5700 *12,600	*5700 *12,600	8.54 28.33
6.0 m 20.0 ft	kg lb									*7900 *17,250	*7900 *17,250	*7400 *14,300	5950 12,700	*5550 *12,200	*5550 *12,200	9.34 30.83
4.5 m 15.0 ft	kg lb							*9650 *20,950	*9650 *20,950	*8650 *18,800	7800 16,800	*8050 *17,650	5850 12,500	*5550 *12,200	5000 11,050	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 200 *32,600	*15 200 *32,600	*11 450 *24,800	10 450 22,450	*9600 *20,900	7500 16,100	*8550 *18,650	5650 12,150	*5750 *12,600	4700 10,350	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 300 *39,450	14 800 31,900	*13 200 *28,500	9850 21,200	*10 600 *22,950	7150 15,400	8500 18,300	5500 11,800	*6050 *13,350	4600 10,050	10.13 33.33
0 m 0 ft	kg lb			*8150 *18,600	*8150 *18,600	*19 950 *43,100	14 150 30,450	*14 350 *31,100	9400 20,250	10 950 23,500	6900 14,850	8350 18,000	5350 11,450	*6650 *14,600	4650 10,200	9.93 32.50
-1.5 m -5.0 ft	kg lb	*8550 *19,050	*8550 *19,050	*12 850 *28,950	*12 850 *28,950	*20 200 *43,700	13 900 29,900	*14 850 *32,100	9150 19,750	10 750 23,150	6750 14,500	8300 17,800	5250 11,300	*7550 *16,650	4900 10,800	9.49 31.67
-3.0 m -10.0 ft	kg lb	*13 600 *30,400	*13 600 *30,400	*18 750 *42,400	*18 750 *42,400	*19 300 *41,800	13 900 29,900	*14 450 *31,300	9100 19,650	10 700 23,100	6700 14,450			8600 19,050	5500 12,100	8.77 29.17
-4.5 m -15.0 ft	kg lb	*19 550 *43,900	*19 550 *43,900	*23 900 *51,500	*23 900 *51,500	*17 200 *37,100	14 150 30,400	*13 050 *27,950	9250 19,950	*9750 *20,550	6850 14,800			*9350 *20,550	6650 14,800	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 100 *27,600	*13 100 *27,600	*9250 *9250						*9100 *19,900	*9100 *19,900	6.06 20.00



ISO 10567



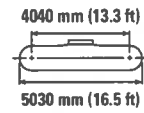
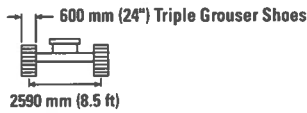
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Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft
9.0 m	kg													*6150	*6150	7.35
30.0 ft	lb													*13,650	*13,650	24.17
7.5 m	kg									*7600	*7600			*5700	*5700	8.54
25.0 ft	lb									*16,750	*16,750			*12,600	*12,600	28.33
6.0 m	kg									*7900	*7900	*7400	5900	*5550	5500	9.34
20.0 ft	lb									*17,250	*17,250	*14,300	12,600	*12,200	*12,200	30.83
4.5 m	kg							*9650	*9650	*8650	7750	*8050	5800	*5550	4950	9.84
15.0 ft	lb							*20,950	*20,950	*18,800	16,700	*17,650	12,400	*12,200	10,950	32.50
3.0 m	kg					*15 200	*15 200	*11 450	10 350	*9600	7450	*8550	5600	*5750	4650	10.10
10.0 ft	lb					*32,600	*32,600	*24,800	22,300	*20,900	16,000	18,550	12,050	*12,600	10,250	33.33
1.5 m	kg					*18 300	14 700	*13 200	9750	*10 600	7100	8450	5450	*6050	4550	10.13
5.0 ft	lb					*39,450	31,650	*28,500	21,000	*22,950	15,300	18,150	11,650	*13,350	9,950	33.33
0 m	kg			*8150	*8150	*19 950	14 050	*14 350	9300	10 850	6850	8300	5300	*6650	4600	9.93
0 ft	lb			*18,600	*18,600	*43,100	30,200	*31,100	20,050	23,300	14,700	17,800	11,350	*14,600	10,100	32.50
-1.5 m	kg	*8550	*8550	*12 850	*12 850	*20 200	13 800	*14 850	9100	10 650	6700	8200	5200	*7550	4850	9.49
-5.0 ft	lb	*19,050	*19,050	*28,950	*28,950	*43,700	29,650	*32,100	19,550	22,950	14,400	17,650	11,200	*16,650	10,700	31.67
-3.0 m	kg	*13 600	*13 600	*18 750	*18 750	*19 300	13 800	*14 450	9050	10 650	6650			8550	5450	8.77
-10.0 ft	lb	*30,400	*30,400	*42,400	*42,400	*41,800	29,650	*31,300	19,450	22,850	14,300			18,900	12,000	29.17
-4.5 m	kg	*19 550	*19 550	*23 900	*23 900	*17 200	14 000	*13 050	9150	*9750	6800			*9350	6600	7.69
-15.0 ft	lb	*43,900	*43,900	*51,500	*51,500	*37,100	30,150	*27,950	19,750	*20,550	14,700			*20,550	14,700	25.00
-6.0 m	kg					*13 100	*13 100	*9250	*9250					*9100	*9100	6.06
-20.0 ft	lb					*27,600	*27,600							*19,900	*19,900	20.00



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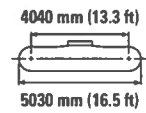
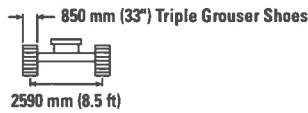
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

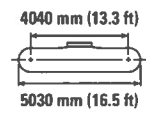
336 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
7.5 m 25.0 ft	kg lb							*8700 8200				*7350 *16,200	*7350 *16,200	7.70 25.00
6.0 m 20.0 ft	kg lb							*8800 *19,250	8100 17,400			*7100 *15,650	6500 14,400	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400 *23,350	*13 400 *23,350	*10 800 *23,350	*10 800 *20,550	*9450 *20,550	7900 16,950	*8400 5900		*7150 *15,750	5750 12,700	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 000 *36,500	15 800 34,100	*12 500 *27,000	10 450 22,550	*10 350 *22,400	7600 16,300	8900 19,100	5750 12,400	*7450 *16,350	5400 11,850	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 550 *42,200	14 850 32,000	*14 000 *30,200	9950 21,450	*11 150 *24,200	7300 15,700	8750 18,750	5650 12,100	*8000 *17,550	5250 11,550	9.44 31.67
0 m 0 ft	kg lb			*20 400 *44,200	14 450 31,050	*14 850 *32,150	9600 20,700	11 200 24,100	7100 15,250	8600 18,550	5500 11,900	8350 18,350	5350 11,750	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 000 *31,700	*14 000 *31,700	*20 000 *43,350	14 350 30,850	*14 950 *32,350	9450 20,400	11 100 23,850	7000 15,050			8950 19,700	5700 12,600	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 150 *50,100	*22 150 *50,100	*18 550 *40,150	14 450 31,100	*14 100 *30,500	9500 20,450	*10 950 *23,450	7050 15,150			*10 000 *22,000	6550 14,450	7.96 26.67
-4.5 m -15.0 ft	kg lb	*20 850 *44,950	*20 850 *44,950	*15 700 *33,750	14 750 31,800	*11 900 *25,350	9700 21,000					*10 050 *22,100	8350 18,650	6.75 22.50

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
7.5 m 25.0 ft	kg lb							*8700 8150				*7350 *16,200	*7350 *16,200	7.70 25.00
6.0 m 20.0 ft	kg lb							*8800 *19,250	8100 17,350			*7100 *15,650	6450 14,300	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400 *23,350	*13 400 *23,350	*10 800 *23,350	*10 800 *20,550	*9450 *20,550	7850 16,900	*8400 5850		*7150 *15,750	5750 12,650	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 000 *36,500	15 750 33,950	*12 500 *27,000	10 400 22,450	*10 350 *22,400	7550 16,250	8850 19,000	5750 12,350	*7450 *16,350	5350 11,800	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 550 *42,200	14 750 31,850	*14 000 *30,200	9900 21,350	*11 150 *24,200	7250 15,650	8700 18,650	5600 12,050	*8000 *17,550	5200 11,500	9.44 31.67
0 m 0 ft	kg lb			*20 400 *44,200	14 350 30,900	*14 850 *32,150	9550 20,600	11 150 24,000	7050 15,200	8550 18,450	5500 11,850	8300 18,250	5300 11,700	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 000 *31,700	*14 000 *31,700	*20 000 *43,350	14 250 30,700	*14 950 *32,350	9400 20,300	11 050 23,750	6950 15,000			8900 19,600	5700 12,550	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 150 *50,100	*22 150 *50,100	*18 550 *40,150	14 400 30,950	*14 100 *30,500	9450 20,350	*10 950 *23,450	7000 15,100			*10 000 *22,000	6500 14,400	7.96 26.67
-4.5 m -15.0 ft	kg lb	*20 850 *44,950	*20 850 *44,950	*15 700 *33,750	14 700 31,650	*11 900 *25,350	9650 20,900					*10 050 *22,100	8300 18,550	6.75 22.50



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*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

3.2 m (10'6")
R3.2DB (HD)

6.5 m (21'4")

700 mm (28") Triple Grouser Shoes
2590 mm (8.5 ft)

4040 mm (13.3 ft)
5030 mm (16.5 ft)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
7.5 m 25.0 ft	kg lb							*8700 8050				*7350 *16,200	*7350 *16,200	7.70 25.00
6.0 m 20.0 ft	kg lb							*8800 *19,250	7950 17,100			*7100 *15,650	6350 14,100	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400	*13 400	*10 800 *23,350	*10 800 *23,350	*9450 *20,550	7750 16,650	*8400	5800	*7150 *15,750	5650 12,450	9.13 30.00
3.0 m 10.0 ft	kg lb			*17 000 *36,500	15 500 33,500	*12 500 *27,000	10 250 22,150	*10 350 *22,400	7450 16,000	8700 18,700	5650 12,150	*7450 *16,350	5250 11,600	9.41 30.83
1.5 m 5.0 ft	kg lb			*19 550 *42,200	14 550 31,350	*14 000 *30,200	9750 21,000	*11 150 24,100	7150 15,400	8550 18,350	5500 11,850	7950 17,500	5150 11,300	9.44 31.67
0 m 0 ft	kg lb			*20 400 *44,200	14 150 30,400	*14 850 *32,150	9400 20,300	10 950 23,600	6950 14,950	8450 18,150	5400 11,650	8150 17,950	5250 11,500	9.22 30.83
-1.5 m -5.0 ft	kg lb	*14 000 *31,700	*14 000 *31,700	*20 000 *43,350	14 050 30,200	*14 950 *32,350	9250 19,950	10 850 23,350	6850 14,750			8750 19,300	5600 12,300	8.75 29.17
-3.0 m -10.0 ft	kg lb	*22 150 *50,100	*22 150 *50,100	*18 550 *40,150	14 150 30,450	*14 100 *30,500	9300 20,050	10 900 *23,450	6900 14,850			*10 000 *22,000	6400 14,150	7.96 26.67
-4.5 m -15.0 ft	kg lb	*20 850 *44,950	*20 850 *44,950	*15 700 *33,750	14 500 31,200	*11 900 *25,350	9500 20,550					*10 050 *22,100	8150 18,250	6.75 22.50

HD Reach Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

3.2 m (10'6")
R3.2DB (HD)

6.5 m (21'4")

600 mm (24") Triple Grouser Shoes
2590 mm (8.5 ft)

4040 mm (13.3 ft)
5030 mm (16.5 ft)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft					
														m ft	
7.5 m 25.0 ft	kg lb							*8700 7950				*7350 *16,200	*7350 *16,200	7.70 25.00	
6.0 m 20.0 ft	kg lb							*8800 *19,250	7900 17,000			*7100 *15,650	6300 14,000	8.58 28.33	
4.5 m 15.0 ft	kg lb			*13 400	*13 400	*10 800 *23,350	10 750 23,200	*9450 *20,550	7650 16,500	*8400	5750	*7150 *15,750	5600 12,350	9.13 30.00	
3.0 m 10.0 ft	kg lb			*17 000 *36,500	15 400 33,250	*12 500 *27,000	10 200 21,950	*10 350 *22,400	7350 15,850	8600 18,500	5600 12,050	*7450 *16,350	5200 11,500	9.41 30.83	
1.5 m 5.0 ft	kg lb			*19 550 *42,200	14 450 31,100	*14 000 *30,200	9650 20,850	11 100 23,900	7100 15,250	8450 18,200	5450 11,750	7900 17,350	5100 11,200	9.44 31.67	
0 m 0 ft	kg lb			*20 400 *44,200	14 000 30,150	*14 850 *32,150	9350 20,100	10 850 23,400	6900 14,800	8350 17,950	5350 11,550	8050 17,750	5200 11,400	9.22 30.83	
-1.5 m -5.0 ft	kg lb			*14 000 *31,700	*14 000 *31,700	*20 000 *43,350	13 950 29,950	*14 950 32,300	9200 19,800	10 750 23,150	6800 14,600		8650 19,100	5550 12,200	8.75 29.17
-3.0 m -10.0 ft	kg lb			*22 150 *50,100	*22 150 *50,100	*18 550 *40,150	14 050 30,200	*14 100 *30,500	9200 19,850	10 800 23,300	6800 14,700		9950 *22,000	6350 14,000	7.96 26.67
-4.5 m -15.0 ft	kg lb			*20 850 *44,950	*20 850 *44,950	*15 700 *33,750	14 350 30,900	*11 900 *25,350	9450 20,400				*10 050 *22,100	8100 18,100	6.75 22.50



ISO 10567



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

336 Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	6.8 mt (14,991 lb) Counterweight			7.56 mt (16,667 lb) Counterweight					
		mm	in	m³	yd³	kg	lb		%	Reach		Mass	HD Reach		Reach		Mass
										R3.2 (10'6")	R3.9 (12'10")		HD R3.2 (10'6")	HD R3.9 (12'10")	R3.2 (10'6")	R3.9 (12'10")	
Pin-On (No Quick Coupler)																	
General Duty Capacity	DB	750	30	0.94	1.23	960	2,115	100	●	●		●	●	●	●		
	DB	900	36	1.19	1.56	1050	2,315	100	●	●		●	●	●	●		
	DB	1050	42	1.46	1.91	1160	2,556	100	●	●		●	●	●	●		
	DB	1200	48	1.73	2.26	1246	2,746	100	●	⊙		●	⊙	●	●		
	DB	1350	54	2.00	2.62	1358	2,995	100	⊙	⊖		●	⊖	●	⊙		
	DB	1500	60	2.27	2.97	1470	3,240	100	⊖	○		⊙	○	⊙	⊖		
	DB	1650	66	2.55	3.33	1556	3,430	100	○	○		⊖	○	⊖	○		
General Duty Capacity – Wide Tip	DB	800	32	1.18	1.54	1040	2,292	100	●	●		●	●	●	●		
	DB	950	38	1.49	1.95	1135	2,503	100	●	●		●	●	●	●		
	DB	1100	44	1.46	1.91	1158	2,552	100	●	●		●	●	●	●		
	DB	1250	50	1.73	2.26	1243	2,739	100	●	⊙		●	⊙	●	●		
	DB	1400	56	2.00	2.62	1355	2,988	100	⊙	⊖		●	⊖	●	⊙		
	DB	1550	62	2.27	2.97	1468	3,236	100	⊖	○		⊙	○	⊙	⊖		
	DB	1650	66	2.55	3.33	1556	3,430	100	○	○		⊖	○	⊖	○		
Heavy Duty	DB	750	30	0.73	0.95	1033	2,278	100	●	●		●	●	●	●		
	DB	900	36	0.95	1.24	1181	2,603	100	●	●		●	●	●	●		
	DB	1050	42	1.17	1.54	1271	2,802	100	●	●		●	●	●	●		
	DB	1200	48	1.40	1.84	1403	3,093	100	●	●		●	●	●	●		
	DB	1350	54	1.64	2.14	1499	3,304	100	●	⊙		●	⊙	●	●		
	DB	1500	60	1.88	2.46	1630	3,593	100	⊙	⊖		⊙	⊖	●	⊙		
	DB	1650	66	2.12	2.77	1762	3,884	100	⊖	○		⊖	○	⊙	⊖		
Heavy Duty Power	DB	750	30	0.73	0.95	1033	2,278	100	●	●		●	●	●	●		
	DB	900	36	0.95	1.24	1175	2,590	100	●	●		●	●	●	●		
	DB	1200	48	1.40	1.83	1408	3,104	100	●	●		●	●	●	●		
	DB	1350	54	1.63	2.13	1505	3,318	100	●	⊙		●	⊙	●	●		
	DB	1500	60	1.86	2.43	1642	3,620	100	⊙	⊖		●	⊖	●	⊙		
	DB	1650	66	2.12	2.77	1762	3,884	100	⊖	○		⊖	○	⊙	⊖		
	DB	1800	72	2.36	3.08	1859	4,098	100	○	○		⊖	○	⊖	○		
Severe Duty	DB	750	30	0.73	0.95	1088	2,399	90	●	●		●	●	●	●		
	DB	900	36	0.95	1.24	1241	2,795	90	●	●		●	●	●	●		
	DB	1050	42	1.17	1.54	1338	2,949	90	●	●		●	●	●	●		
	DB	1200	48	1.40	1.83	1478	3,258	90	●	●		●	●	●	●		
Extreme Duty	DB	1350	54	1.64	2.14	1581	3,485	90	●	⊙		●	●	●	●		
	DB	1200	48	1.40	1.83	1621	3,573	90	●	●		●	●	●	●		
General Duty Capacity	TB	1700	68	2.78	3.64	2233	4,923	100			○					⊖	
	TB	1850	74	3.08	4.04	2356	5,194	100			○					○	
Heavy Duty	TB	1650	66	2.41	3.15	2307	5,086	100			⊖					⊖	
	TB	1800	72	2.69	3.52	2437	5,373	100			○					○	
Severe Duty	TB	1700	67	2.41	3.16	2509	5,531	90			⊖					⊖	
	TB	1850	74	2.69	3.52	2709	5,972	90			○					⊖	
Maximum load with pin-on (payload + bucket)									kg	5160	4500	5760	5370	4670	5545	4855	6200
									lb	11,376	9,921	12,699	11,839	10,296	12,225	10,703	13,669

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

(continued on next page)

336 Hydraulic Excavator Specifications

Bucket Specifications and Compatibility (continued)

	Linkage	Width		Capacity		Weight		Fill	6.8 mt (14,991 lb) Counterweight			7.56 mt (16,667 lb) Counterweight				
		mm	in	m³	yd³	kg	lb		%	Reach		Mass	HD Reach		Reach	
								R3.2 (10'6")		R3.9 (12'10")	M2.55 (8'4")	HD R3.2 (10'6")	HD R3.9 (12'10")	R3.2 (10'6")	R3.9 (12'10")	M2.55 (8'4")
With Cat Pin Grabber Coupler																
General Duty Capacity	DB	750	30	0.94	1.23	960	2,115	100	●	●		●	●	●	●	
	DB	900	36	1.19	1.56	1050	2,315	100	●	●		●	●	●	●	
	DB	1050	42	1.46	1.91	1160	2,556	100	●	⊖		●	⊖	●	⊖	
	DB	1200	48	1.73	2.26	1246	2,746	100	⊖	○		⊖	○	⊖	○	
	DB	1350	54	2.00	2.62	1358	2,995	100	○	◇		⊖	◇	⊖	○	
	DB	1500	60	2.27	2.97	1470	3,240	100	○	◇		○	◇	○	◇	
	DB	1650	66	2.55	3.33	1556	3,430	100	◇	X		◇	X	○	◇	
General Duty Capacity – Wide Tip	DB	800	32	1.18	1.54	1040	2,292	100	●	●		●	●	●	●	
	DB	950	38	1.49	1.95	1135	2,503	100	●	⊖		●	⊖	●	⊖	
	DB	1100	44	1.46	1.91	1158	2,552	100	●	⊖		●	⊖	●	⊖	
	DB	1250	50	1.73	2.26	1243	2,739	100	⊖	○		⊖	○	⊖	○	
	DB	1400	56	2.00	2.62	1355	2,988	100	○	◇		⊖	◇	⊖	○	
	DB	1550	62	2.27	2.97	1468	3,236	100	○	◇		○	◇	○	◇	
	DB	1650	66	2.55	3.33	1556	3,430	100	◇	X		◇	X	○	◇	
Heavy Duty	DB	750	30	0.73	0.95	1033	2,278	100	●	●		●	●	●	●	
	DB	900	36	0.95	1.24	1181	2,603	100	●	●		●	●	●	●	
	DB	1050	42	1.17	1.54	1271	2,802	100	●	⊖		●	⊖	●	⊖	
	DB	1200	48	1.40	1.84	1403	3,093	100	⊖	○		●	○	●	○	
	DB	1350	54	1.64	2.14	1499	3,304	100	⊖	○		⊖	○	⊖	○	
	DB	1500	60	1.88	2.46	1630	3,593	100	○	◇		⊖	◇	⊖	○	
	DB	1650	66	2.12	2.77	1762	3,884	100	◇	X		○	◇	○	◇	
Heavy Duty Power	DB	1800	72	2.36	3.08	1859	4,098	100	◇	X		◇	X	◇	X	
	DB	900	36	0.95	1.24	1175	2,590	100	●	●		●	●	●	●	
	DB	1200	48	1.40	1.83	1408	3,104	100	⊖	○		⊖	○	⊖	○	
	DB	1350	54	1.63	2.13	1505	3,318	100	⊖	○		⊖	○	⊖	○	
	DB	1500	60	1.86	2.43	1642	3,620	100	○	◇		⊖	◇	⊖	○	
Heavy Duty Pin Grabber Performance	DB	900	36	0.87	1.14	1209	2,665	100	●	●		●	●	●	●	
	DB	1050	42	1.08	1.41	1312	2,892	100	●	⊖		●	●	●	●	
	DB	1200	48	1.29	1.69	1442	3,179	100	●	⊖		●	⊖	●	⊖	
	DB	1350	54	1.50	1.96	1544	3,404	100	⊖	○		⊖	○	⊖	○	
	DB	1500	60	1.72	2.25	1681	3,706	100	○	◇		⊖	◇	⊖	○	
	DB	1650	66	1.93	2.52	1819	4,010	100	○	X		○	◇	○	◇	
Severe Duty	DB	750	30	0.73	0.95	1088	2,399	90	●	●		●	●	●	●	
	DB	900	36	0.95	1.24	1241	2,735	90	●	●		●	●	●	●	
	DB	1050	42	1.17	1.54	1338	2,949	90	●	●		●	●	●	●	
	DB	1200	48	1.40	1.83	1478	3,258	90	●	⊖		●	⊖	●	⊖	
	DB	1350	54	1.64	2.14	1581	3,485	90	⊖	○		⊖	○	⊖	○	
Severe Duty Pin Grabber Performance	DB	750	30	0.68	0.88	1095	2,414	90	●	●		●	●	●	●	
	DB	900	36	0.87	1.14	1272	2,804	90	●	●		●	●	●	●	
	DB	1200	48	1.29	1.69	1520	3,351	90	●	⊖		●	⊖	●	⊖	
	DB	1350	54	1.50	1.96	1628	3,589	90	⊖	○		⊖	○	●	⊖	
Extreme Duty	DB	1200	48	1.40	1.83	1621	3,573	90	⊖	○		⊖	○	●	⊖	
General Duty Capacity	TB	1700	68	2.78	3.64	2233	4,923	100			◇					◇
	TB	1850	74	3.08	4.04	2356	5,194	100			X					◇
Heavy Duty	TB	1650	66	2.41	3.15	2307	5,086	100			◇					○
	TB	1800	72	2.69	3.52	2437	5,373	100			X					◇
Severe Duty	TB	1700	67	2.41	3.16	2509	5,531	90			◇					○
	TB	1850	74	2.69	3.52	2709	5,972	90			X					◇
Maximum load with coupler (payload + bucket)								kg	4465	3808	4707	4674	3974	4850	4159	5151
								lb	9,844	8,396	10,377	10,305	8,762	10,693	9,170	11,356

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊖ 1800 kg/m³ (3,000 lb/yd³)
- 1500 kg/m³ (2,500 lb/yd³)
- ◇ 1200 kg/m³ (2,000 lb/yd³)
- 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

336 Hydraulic Excavator Specifications

Attachments Offering Guide

PIN-ON ATTACHMENTS

Undercarriage		Long Undercarriage		
Counterweight		6.8 mt (14,991 lb) Counterweight		
Boom Type		Reach Boom		Mass Boom
Stick Size		R3.2 (10'6")	R3.9 (12'10")	M2.55 (8'4")
Hydraulic Hammers	H140E S	✓	✓	✓
	H160E S	✓	✓	✓
	B35	✓	✓	✓
Multi-Processors	MP324 CC Jaw	✓	✓	
	MP324 D Jaw	✓	✓	
	MP324 P Jaw	✓	✓	
	MP324 S Jaw	✓	✓	
	MP324 TS Jaw	✓	✓	
	MP324 U Jaw	✓	✓	
	MP332 CC Jaw	✓	✓	✓
	MP332 D Jaw	✓	✓	✓
	MP332 P Jaw	✓	✓	✓
	MP332 S Jaw	✓	✓	✓
	MP332 TS Jaw	✓	✓*	✓
	MP332 U Jaw	✓	✓	✓
	MP345 CC Jaw			✓
	MP345 D Jaw			✓*
	MP345 P Jaw			✓*
	MP345 S Jaw			✓
Pulverizers	P225	✓	✓	
	P235	✓	✓	✓
Demolition and Sorting Grapples	G325B	✓	✓	
	G330	✓	✓	✓
Mobile Scrap and Demolition Shears	S3035	✓	✓	
Compactors (Vibratory Plate)	CVP110	✓	✓	✓
Orange Peel Grapples		✓	✓	✓
Contractors' Grapples		✓	✓	✓
Trash Grapples		✓	✓	✓
Thumbs		✓	✓	✓
Rakes		✓	✓	
Rippers		✓	✓	✓
Cat Pin Grabber Couplers		✓	✓	✓

*Working range front only.

(continued on next page)

336 Hydraulic Excavator Specifications

Attachments Offering Guide (continued)

PIN-ON ATTACHMENTS

Undercarriage		Long Undercarriage				
Counterweight		7.56 mt (16,667 lb) Counterweight				
Boom Type		Reach Boom		HD Reach Boom		Mass Boom
Stick Size		R3.2 (10'6")	R3.9 (12'10")	HD R3.2 (10'6")	HD R3.9 (12'10")	M2.55 (8'4")
Hydraulic Hammers	H140E S	✓	✓	✓	✓	✓
	H160E S	✓	✓	✓	✓	✓
	B35	✓	✓	✓	✓	✓
Multi-Processors	MP324 CC Jaw	✓	✓	✓	✓	
	MP324 D Jaw	✓	✓	✓	✓	
	MP324 P Jaw	✓	✓	✓	✓	
	MP324 S Jaw	✓	✓	✓	✓	
	MP324 TS Jaw	✓	✓	✓	✓	
	MP324 U Jaw	✓	✓	✓	✓	
	MP332 CC Jaw	✓	✓	✓	✓	✓
	MP332 D Jaw	✓	✓	✓	✓	✓
	MP332 P Jaw	✓	✓	✓	✓	✓
	MP332 S Jaw	✓	✓	✓	✓	✓
	MP332 TS Jaw	✓	✓	✓	✓	✓
	MP332 U Jaw	✓	✓	✓	✓	✓
	MP345 CC Jaw					✓
	MP345 D Jaw					✓
	MP345 P Jaw					✓
	MP345 S Jaw					✓
Pulverizers	P225	✓	✓	✓	✓	
	P235	✓	✓	✓	✓	✓
Demolition and Sorting Grapples	G325B	✓	✓	✓	✓	
	G330	✓	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3035	✓	✓	✓	✓	
Compactors (Vibratory Plate)	CVPI10	✓	✓	✓	✓	✓
Orange Peel Grapples		✓	✓	✓	✓	✓
Contractors' Grapples		✓	✓	✓	✓	✓
Trash Grapples		✓	✓	✓	✓	✓
Thumbs		✓	✓	✓	✓	✓
Rakes		✓	✓	✓	✓	
Rippers		✓	✓	✓	✓	✓
Cat Pin Grabber Couplers		✓	✓	✓	✓	✓

(continued on next page)

336 Hydraulic Excavator Specifications

Attachments Offering Guide (continued)

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Long Undercarriage		
Counterweight		6.8 mt (14,991 lb) Counterweight		
Boom Type		Reach Boom		Mass Boom
Stick Size		R3.2 (10'6")	R3.9 (12'10")	M2.55 (8'4")
Hydraulic Hammers	H140E S	✓	✓	✓
	H160E S	✓	✓*	✓
	B35	✓	✓	✓
Multi-Processors	MP324 CC Jaw	✓	✓	
	MP324 D Jaw	✓	✓	
	MP324 P Jaw	✓	✓	
	MP324 S Jaw	✓	✓	
	MP324 TS Jaw	✓	✓	
	MP324 U Jaw	✓	✓	
	MP332 CC Jaw	✓	✓*	✓
	MP332 D Jaw	✓		✓
	MP332 P Jaw	✓		✓*
	MP332 S Jaw	✓	✓*	✓
	MP332 TS Jaw			
	MP332 U Jaw	✓		✓*
Pulverizers	P225	✓	✓	
	P235	✓*		✓*
Demolition and Sorting Grapples	G325B	✓	✓	
	G330	✓*		✓*
Mobile Scrap and Demolition Shears	S3035	✓	✓	
Compactors (Vibratory Plate)	CVP110	✓	✓	✓
Thumbs		✓	✓	✓
Rakes		✓	✓	✓
Rippers		✓	✓	✓

BOOM-MOUNTED ATTACHMENTS

Undercarriage		Long Undercarriage		
Counterweight		6.8 mt (14,991 lb) Counterweight		
Boom Type		Reach Boom		Mass Boom
Mobile Scrap and Demolition Shears	S2090	✓		✓
	S3050	✓		✓
	S3070	✓		✓

*Working range front only.

(continued on next page)

336 Hydraulic Excavator Specifications

Attachments Offering Guide (continued)

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Long Undercarriage				
Counterweight		7.56 mt (16,667 lb) Counterweight				
Boom Type		Reach Boom		HD Reach Boom		Mass Boom
Stick Size		R3.2 (10'6")	R3.9 (12'10")	HD R3.2 (10'6")	HD R3.9 (12'10")	M2.55 (8'4")
Hydraulic Hammers	H140E S	✓	✓	✓	✓	✓
	H160E S	✓	✓	✓	✓	✓
	B35	✓	✓	✓	✓	✓
Multi-Processors	MP324 CC Jaw	✓	✓	✓	✓	
	MP324 D Jaw	✓	✓	✓	✓	
	MP324 P Jaw	✓	✓	✓	✓	
	MP324 S Jaw	✓	✓	✓	✓	
	MP324 TS Jaw	✓	✓	✓	✓	
	MP324 U Jaw	✓	✓	✓	✓	
	MP332 CC Jaw	✓	✓	✓	✓*	✓
	MP332 D Jaw	✓	✓*	✓	✓*	✓
	MP332 P Jaw	✓	✓*	✓	✓*	✓
	MP332 S Jaw	✓	✓	✓	✓*	✓
	MP332 TS Jaw	✓		✓*		✓*
	MP332 U Jaw	✓	✓*	✓	✓*	✓
Pulverizers	P225	✓	✓	✓	✓	
	P235	✓		✓		✓
Demolition and Sorting Grapples	G325B	✓	✓	✓		
	G330	✓	✓*	✓		✓
Mobile Scrap and Demolition Shears	S3035	✓	✓	✓	✓	
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓	✓
Thumbs		✓	✓	✓	✓	✓
Rakes		✓	✓	✓	✓	✓
Rippers		✓	✓	✓	✓	✓

BOOM-MOUNTED ATTACHMENTS

Undercarriage		Long Undercarriage			
Counterweight		7.56 mt (16,667 lb) Counterweight			
Boom Type		Reach Boom		HD Reach Boom	Mass Boom
Mobile Scrap and Demolition Shears	S2090	✓		✓	✓
	S3050	✓		✓	✓
	S3070	✓		✓	✓

*Working range front only.

336 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
CAB			ENGINE		
ROPS, standard sound suppression	✓		Cold start block heaters		✓
High-resolution 254 mm (10") LCD touchscreen monitor	✓		Three selectable modes: Power, Smart, Eco	✓	
High-resolution 254 mm (10") LCD touchscreen monitor + additional monitor (for use with Cat GRADE with Advanced 2D or Cat GRADE with 3D)		✓	Automatic engine speed control	✓	
Automatic bi-level air conditioner	✓		52° C (126° F) high-ambient cooling capacity	✓	
Jog dial and shortcut keys for monitor control	✓		Hydraulic reverse fan	✓	
Keyless push-to-start engine control	✓		-18° C (0° F) cold start capability	✓	
Height-adjustable console, infinite with no tool	✓		-32° C (-25° F) cold start capability		✓
Heated seat with air-adjustable suspension	✓		Double element air filter with integrated precleaner	✓	
51 mm (2") seat belt	✓		Dual stage four micron main filter and 10 micron primary filter with water separator and water separator indicator switch	✓	
Tilt-up left-side console	✓		Remote disable	✓	
Bluetooth integrated radio with USB ports	✓		Biodiesel capability up to B20	✓	
12V DC outlets	✓		HYDRAULIC SYSTEM		
Document storage	✓		Boom and stick regeneration circuit	✓	
Rear head storage net and lunchbox storage net	✓		Electronic main control valve	✓	
Cup and bottle holders	✓		Heavy lift mode	✓	
Openable two-piece front window	✓		Automatic hydraulic oil warm up	✓	
Rear window emergency exit	✓		Bio hydraulic oil capability	✓	
Radial wiper with washer	✓		Fine swing	✓	
Lower radial wiper		✓	Reverse swing damping valve	✓	
Openable polycarbonate skylight hatch	✓		Automatic swing parking brake	✓	
LED dome light	✓		High performance hydraulic return filter	✓	
Floor welcome light	✓		Two speed travel	✓	
Roller front sunscreen	✓		Combined two-way auxiliary circuit		✓
Roller rear sunscreen		✓	Medium-pressure auxiliary circuit		✓
Washable floor mat	✓		Quick coupler circuit for Cat Pin Grabber		✓
Beacon ready	✓		(continued on next page)		

336 Standard and Optional Equipment

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
UNDERCARRIAGE AND STRUCTURES			CAT TECHNOLOGY		
Long undercarriage	✓		Cat Product Link™	✓	
Towing eye on base frame	✓		Work tool recognition	✓	
Track guiding guard, full length		✓	Work tool tracking*	✓	
Track guiding guard, segmented two piece		✓	Laser catcher		✓
Swivel guard	✓		Cat GRADE with 2D and offset memory	✓	
HD bottom guard	✓		Cat GRADE with Advanced 2D		✓
HD travel motor guard	✓		Cat GRADE with 3D connectivity:		✓
Grease lubricated track	✓		– Virtual Reference Station**		
HD swing frame		✓	– Internet Base Service Station**		
HD swing bearing		✓	– Trimble Connected Community**		
Base frame with HD rollers	✓		Cat Assist:	✓	
6.8 mt (14,991 lb) counterweight		✓	– Grade Assist		
7.56 mt (16,667 lb) counterweight		✓	– Boom Assist		
600 mm (24") triple grouser track shoes		✓	– Bucket Assist		
700 mm (28") triple grouser track shoes		✓	– Swing Assist		
800 mm (31") triple grouser track shoes		✓	– Lift Assist		
850 mm (33") triple grouser track shoes		✓	Cat PAYLOAD:	✓	
BOOMS, STICKS AND LINKAGES			– Static weigh		
6.18 m (20'3") Mass boom		✓	– Semiauto calibration		
6.5 m (21'4") Reach boom		✓	– Payload/cycle information		
6.5 m (21'4") HD Reach boom		✓	– USB reporting capability		
2.55 m (8'4") stick		✓	2D E-Fence:	✓	
3.2 m (10'6") stick		✓	– E-ceiling		
3.2 m (10'6") HD stick		✓	– E-floor		
3.9 m (12'10") stick		✓	– E-swing		
3.9 m (12'10") HD stick		✓	– E-wall		
Bucket linkage, TB family with lifting eye, Cat GRADE		✓	– E-cab avoidance		
Bucket linkage, DB family with lifting eye, Cat GRADE		✓	Auto hammer stop	✓	
ELECTRICAL SYSTEM			Remote Services capability	✓	
Maintenance-free 1,000 CCA batteries (×2)	✓				
Centralized electrical disconnect switch	✓				
LED chassis light, LH and RH boom lights, cab lights	✓				
Premium surround working lights		✓			

*Paired with PL161 attachment locator.

**Subscription required.

(continued on next page)

336 Standard and Optional Equipment

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
SERVICE AND MAINTENANCE			SAFETY AND SECURITY		
Grouped location of engine oil and fuel filters	✓		Caterpillar One Key security system	✓	
Scheduled Oil Sampling (S·O·S SM) ports	✓		Lockable external tool/storage box	✓	
QuickEvac TM maintenance ready		✓	Lockable door, fuel, and hydraulic tank locks	✓	
			Lockable fuel drain compartment	✓	
			Service platform with anti-skid plate and recessed bolts	✓	
			RH handrail and hand hold	✓	
			Signaling/warning horn	✓	
			Ground-level secondary engine shutoff switch	✓	
			Boom lowering check valve		✓
			Stick lowering check valve		✓
			Rear and right-hand-sideview cameras	✓	
			360° visibility		✓
			Falling object guard system (not compatible with cab light cover, rain protector)		✓

336 Attachments

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper
- LH/RH electrical pedal for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- 75 mm (3") retractable seat belt

SAFETY AND SECURITY

- Bluetooth[®] key fob

GUARDS

- Side rubber bumper guard
- Falling object guard system (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protecting vandalism guard

ELECTRICAL

- Premium lighting package

DRAFT

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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AEXQ2242-01 (11-2019)
Replaces AEXQ2242
Build Number: 07B
(North America)



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January 17, 2022

CITY OF BETHEL
P O PURCHASES ONLY
PO BOX 1388
BETHEL, Alaska 99559-1388

Attention: Jake Thompson

RE: Quote 258209-01 - QUOTED USING SOURCEWELL-CAT CONTRACT PRICING, CITY OF BETHEL MEMBER # 28863

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration.

One (1) New Caterpillar Model: 336 Hydraulic Excavator with all standard equipment in addition to the specifications listed below:

STOCK NUMBER: 21W1855

SERIAL NUMBER: TBD - NEW

YEAR: 2022

SMU: NEW

STANDARD EQUIPMENT**POWERTRAIN**

C9.3 ENGINE WITH TIER 4 FINAL EMISSIONS

115 Amp alternator

Double element air filter with integrated Pre Cleaner

Automatic engine speed control

Dual Stage 4 micron main filter and 10 micron primary filter with water separator & water separator indicator switch in fuel line

Capability of using Bio-Diesel fuel

Electric fuel priming pump

Secure start with PIN code

Remote disable

UNDERCARRIAGE

Grease lubricated track GLT2, resin seal

Towing eye on baseframe

HYDRAULICS

Regeneration circuit for boom and stick

Capability of installing HP stackable valve and medium & QC valve

Reverse swing damping valve

Automatic swing parking brake

High performance hydraulic return filter

Two speed travel

EH Main control valve

Hydraulic main pump

Auto warm up & cold lock out

ELECTRICAL

Maintenance free battery

LED exterior lights

Power fuse module

Compatible with electronic technician

Centralized electrical disconnect switch

OPERATOR ENVIRONMENT

Sound suppressed ROPS cab

Emergency exit large rear window

2' orange seat belt

Automatic Bi-Level air conditioner with pressurized function

Washable floor mat

Roller front sunscreen

Roller rear sunscreen

Radio with USB port, bluetooth

LED cab lights

Left side cab mirror

Jog dial interface

Dome interior light and lower light for steps & knob

Two coat hooks

Cup holder & beverage holder

Two stereo speakers

Net lid storage shelf suitable for lunch box & net lid overhead storage

Console storage & rear storage suitable for document folder

Two 12V power outlets, 10 Amp

12V CB radio ready

Sliding upper door window

Warning information, filter/fluid change information, working hour information

Machine condition, error code & tool mode setting information

Neutral Lever lock out for all controls

Travel control pedals with removable hand levers

Pressurized positive filtration operator station

Intake/re-circulation cab air filter

Cat key door entry

Beacon ready

SAFETY AND SECURITY

Caterpillar one key security system

Lockable external tool/storage box

Door locks and cap locks including fuel & hydraulic tanks

Lockable fuel drain compartment

RH handrail & hand hold

Standard visibility mirror package

Signaling/warning horn

Ground level secondary engine shutoff switch in cab

Service platform with anti-skid plate & recessed bolts

Grouped location of engine oil & fuel filters

Sampling ports of scheduled oil sampling

Remote flash

MACHINE SPECIFICATIONS

336 NEXT GEN EXCAVATOR	594-9099
21'4" REACH BOOM	578-1028
12'10" REACH STICK	512-1352
DB BUCKET LINKAGE	521-8024
33" TRIPLE GROUSER TRACK SHOES	511-9759
SEGMENTED TRACK GUIDE GUARD	502-1304
REVERSING FAN	576-5781
COMBINED HYDRAULIC PKG	576-6955
DISCONNECT SWITCH	514-7210
REAR + RIGHT HAND VIEW CAMERA	593-3808
DELUXE CAB	546-0111
2D GRADE ASSIST & BASIC PAYLOAD	516-0550
10" MONITOR	511-9428
PRODUCT LINK, PLE643/PLE743	594-9052
INTEGRATED RADIO	502-7166
JUMP START TERMINALS	504-3550
COLD WEATHER BATTERY	513-4370
BLOCK HEATER, 120V	339-6916
REAR SUN SCREEN	488-6450
MIRRORS	548-0292
COLD WEATHER COOLANT	512-1387
HYDRAULIC PIN GRABBER COUPLER	455-3906
72" 3.24 CYD CLEAN OUT BUCKET WITH BOLT ON CUTTING EDGE	4397323
HYDRAULIC THUMB GROUP	5330902
54" 2.14 CYD HD BUCKET WITH 5 HD ADVANSYS TEETH AND SIDECUTTERS	528-4604
NEW MACHINE PREP / INSTALL & TEST ATTACHMENTS	
1 PAPER SET OF PARTS AND SERVICE MANUALS	
FREIGHT FROM FACTORY, FOB BETHEL DOCKSIDE, AK - VIA SUMMER BARGE	
5 YEAR / 3500 HOUR POWERTRAIN+HYDRAULIC+TECH WARRANTY -TECHNICIAN TRAVEL TIME & MILEAGE NOT INCLUDED	

NEW 2022 CAT 336 NEXT GEN EXCAVATOR LIST PRICE	\$544,698.00
2022 SOURCEWELL CONTRACT DISCOUNT – 15% OFF LIST PRICE	-\$81,704.00
ADDITIONAL CAT NEXT GEN EXCAVATOR 2022 GOV CUSTOMER DISCOUNT	-\$13,360.00
SUBTOTAL	\$449,634.00

NON-CAT PRICE LIST ITEMS

FREIGHT FROM FACTORY - FOB BETHEL, AK	\$59,000.00
NEW MACHINE PREP / WINTERIZATION / INSTALL AND TEST ATTACHMENTS	\$13,000.00
1 PAPER SET PARTS AND SERVICE MANUALS	\$1,200.00
5 YEAR / 3500 HOUR CAT POWERTRAIN+HYD+TECH WARRANTY	\$4,200.00
TOTAL	\$527,034.00

WARRANTY

Standard Warranty:	1 YEAR NEW CAT WARRANTY -TECHNICIAN TRAVEL TIME & MILEAGE NOT INCLUDED
Extended Warranty	5 YEAR / 3500 HOUR POWERTRAIN+HYDRAULIC+TECH WARRANTY -TECHNICIAN TRAVEL TIME & MILEAGE NOT INCLUDED

F.O.B/TERMS: BETHEL, AK VIA SUMMER 2022 BARGE

Accepted by _____ on _____

Signature

We wish to thank you for the opportunity of quoting your equipment needs. This quotation is valid for 30 days, after which time we reserve the right to re-quote. If there are any questions, please do not hesitate to contact me.

Sincerely,

Steven Fisher
Machine Sales Representative
Cell: 907-748-7540
SFisher@NCMachinery.com

Retention Pond Documentation

DRAFT



May 13, 2022

Mr. Peter Williams
City of Bethel
P.O. Box 1388
Bethel, Alaska 99559

**Subject: DOWL Term Contract 2017-2022
Fee Proposal for Planning and Engineering Services
Task Order #31 – CEHH Hydraulics and Hydrology Study – AMENDMENT**

Dear Mr. Williams:

DOWL is pleased to present an amendment to the scope of work and fee proposal for the following task order:

Task Order #31 – CEHH Hydraulics and Hydrology Study

It is our understanding that the City of Bethel (City) wishes to proceed with the construction of a retention basin to mitigate the expected runoff from the area north of Milepost 1.8 on the Chief Eddie Hoffman Highway. We will prepare bid ready documents for the project and provide bid support.

Additional SCOPE OF SERVICES

Design Alternative 1 from the previously prepared hydraulics and hydrology study is the recommended basin. This basin is a maximum of five feet deep with 12H:1V side slopes to minimize the risk of traversing the area via ATV or snow machine and to reduce the visual impact to the residents when the basin is not in use. The basin size will be large enough to assume no infiltration to reflect the worst-case scenario volume and the side slopes will be shallow enough to allow a person to wade out of the basin if they fall in when the basin is storing stormwater.

The DOWL team will convert the planning level design drawings from the H&H study into a design package with plans, specifications, and an engineer's estimate. We will develop construction contract documents using EJCDC standardized contracts and forms and work with the City to facilitate a competitive bid process. We will distribute documents to plan-holders lists and agencies; communicate with interested parties on questions and addenda; and review bids for conformance making a recommendation to the City for award.

ASSUMPTIONS

DOWL has used the following assumptions to generate a fee proposal for this additional scope of services:

- A site visit is not included.
- Permitting and environmental assessment is not included.
- Additional geotechnical investigation is not included.
- Excavated material will be hauled to the City landfill and stockpiled for cover as part of the construction contract.
- The City procurement agent will post the Invitation to Bid and subsequent addenda to the City's website.

- Previous tasks under this task order were to develop designs that the City of Bethel could construct, and these designs were in support of the State of Alaska Department of Transportation required H&H study. We assume this work will require preparing the design documents for a construction contractor to bid the project and construct it.
- DOWL will provide design and specifications for the basins, revegetation, and erosion and sediment control.

SCHEDULE

We understand that the City would like to move forward on this project immediately. We recommend the following schedule for construction in 2022.

100% Construction Documents Four weeks from NTP
Fully Compiled Bid Documents Two weeks after acceptance of 100% Construction Documents
Construction Summer 2022

FEE PROPOSAL

We propose to complete the above-described services for a fee of \$28,000. The fee would be distributed with additional budget on existing Task 3- Hydraulic Design for developing plans, specifications, and the estimate and on new Task 4- Bidding Assistance. The fee is divided amongst Lump Sum and Time and Materials tasks as shown in the following table.

Table 1: Proposed Fee

Task	Contracted Budget	Additional Budget	Amended Budget
Task 1- Site Visit (Lump Sum)	\$8,860	\$0	\$8,860
Task 2- H&H Analysis Report (Lump Sum)	\$17,170	\$0	\$17,170
Task 3- Hydraulic Design (Lump Sum)	\$18,650	\$17,740	\$36,390
Task 4- Bidding Assistance (Time and Materials)	\$0	\$10,260	\$10,260
Total	\$44,680	\$28,000	\$72,680

One monthly statement will be provided showing total fees invoiced for the task. Payment will be expected within 30 days.

Services performed by DOWL under this agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, opinion, document or otherwise.

We trust this provided adequate information for evaluating our proposal. We look forward to working with you on this project and will be happy to answer any additional questions you may have.

Mr. Peter Williams
City of Bethel
May 13, 2022
Page 3 of 3

Sincerely,



Chase Nelson, P.E.
LLC Member/Project Manager

Using the City of Bethel-DOWL Engineering Services Term Contract Standard Conditions, DOWL is authorized to amend Task Order #31 – CEHH Hydraulics and Hydrology Study and proceed with the work immediately.

City of Bethel Authorized Representative

Date

Attachment: Detailed Estimate

DRAFT

DOWL
ESTIMATE FOR PROFESSIONAL SERVICES

PROJECT: TO#31 - CEHH Hydraulics and Hydrology Study AMENDMENT

CLIENT: City of Bethel

WO# 50207.01
DATE: 13-May-22
PREPARED BY: JRS
REVIEWED BY: CAN

PROJECT SUMMARY

Task 1- Design Documents	TOTAL =	\$17,740.00
Task 2- Bidding Assistance	TOTAL =	\$10,260.00
TOTAL ESTIMATED FEES FOR PROFESSIONAL SERVICES	TOTAL =	\$28,000.00

Labor Category	Project Manager	Project Engineer	H&H Senior Engineer	H&H Project Engineer	H&H Engineer Asst.	Document Production	Accounting	TOTALS
	Nelson	Schmetzer	Melocik	MacLeod	Needs	Stevens	Atwood	
Hourly Rate	\$195.00	\$170.00	\$205.00	\$160.00	\$110.00	\$125.00	\$140.00	
Task 1- Design Documents								
Project Management	8	1					1	10
100% Plans			4	24	32			60
Technical Specifications			2	8	12			22
Quantities and Estimate			2	8	16			26
Quality Control			6					6
Subtotal - Hours	8	1	14	40	60	0	1	124
Subtotal - Costs	\$1,560.00	\$170.00	\$2,870.00	\$6,400.00	\$6,600.00	\$0.00	\$140.00	\$17,740.00
Task 2- Bidding Assistance								
Project Management	12						1	13
Fully Compiled Bid Documents		8		4		4		16
Addenda		4	2	4				10
Responses to Bidders		4	2	4				10
Recommendation to Award		4		2				6
Quality Control			4					4
Subtotal - Hours	12	20	8	14	0	4	1	59
Subtotal - Costs	\$2,340.00	\$3,400.00	\$1,640.00	\$2,240.00	\$0.00	\$500.00	\$140.00	\$10,260.00
TOTAL - Hours	20	21	22	54	60	4	2	183
TOTAL - Costs	\$3,900.00	\$3,570.00	\$4,510.00	\$8,640.00	\$6,600.00	\$500.00	\$280.00	\$28,000.00