



CITY OF BETHEL
COMMUNITY PARKS AND RECREATION COMMITTEE
MONDAY, JULY 11, 2022, 6:00 PM
LOCATION: 300 CHIEF EDDIE HOFFMAN HIGHWAY

JOIN ZOOM MEETING: [HTTPS://US06WEB.ZOOM.US/J/84754676001?PWD=TDR3CGV6WFC5QNVDWDFNZBNRDUYUT09](https://us06web.zoom.us/j/84754676001?pwd=TDR3CGV6WFC5QNVDWDFNZBNRDUYUT09)

MEETING ID: 847 5467 6001

PASSCODE: 554431

888 475 4499 US TOLL-FREE

833 548 0276 US TOLL-FREE

833 548 0282 US TOLL-FREE

877 853 5257 US TOLL-FREE

MEMBERS

Brian Lefferts, Chair

Judy Wasierski, Vice-Chair

Kathy Hanson

Beverly Hoffman

Michelle DeWitt, Council Rep.

STAFF

pwadmin@cityofbethel.net

907-543-3110

PEOPLE TO BE HEARD THROUGH WRITTEN TESTIMONY

-Must be emailed to pwadmin@cityofbethel.net by 4:00 p.m. the day of the meeting.

-Specifically request that it be presented under people to be heard.

-Contain the full, real name of the person sending the request.

I. CALL TO ORDER

II. ROLL CALL

III. PEOPLE TO BE HEARD – FIVE MINUTES PER PERSON

IV. APPROVAL OF AGENDA

V. APPROVAL OF MEETING MINUTES

- A. June 13, 2022 Meeting Minutes

VI. UNFINISHED BUSINESS

- A. YKHC/KUC Boardwalk Development
- B. Evaluation Of 2022 Community Goals, Tasks, And Priorities

Phase II Of The YK Fitness Center

- Feasibility Study
- Ideas To Improve Operation For The YK Fitness Center
- Potential Revenue Streams/Budget Information For The YK Fitness Center
- Recommendation To Allocate Funding To The YK Fitness Center's Dedicated Fund An Amount Equal To Utility Expenses For Fiscal Year

Recreation Services Contract

Reconcile YK Fitness Center Budget

- C. The City Of Bethel Conveyance Of Pinky's Park Land To ONC
- D. Fiscal Year 2023 Operating And Capital Improvement Budgets

VII. NEW BUSINESS

Posted July 5, 2022 at City Hall, AC Co., Swanson's, and the Post Office.

Name, Ex-Officio Staff

- A. Art Contest, Big Dipper Field Sign for 2022 Kids Vote Ballot (Chair Lefferts)

VIII. EX OFFICIO REPORT

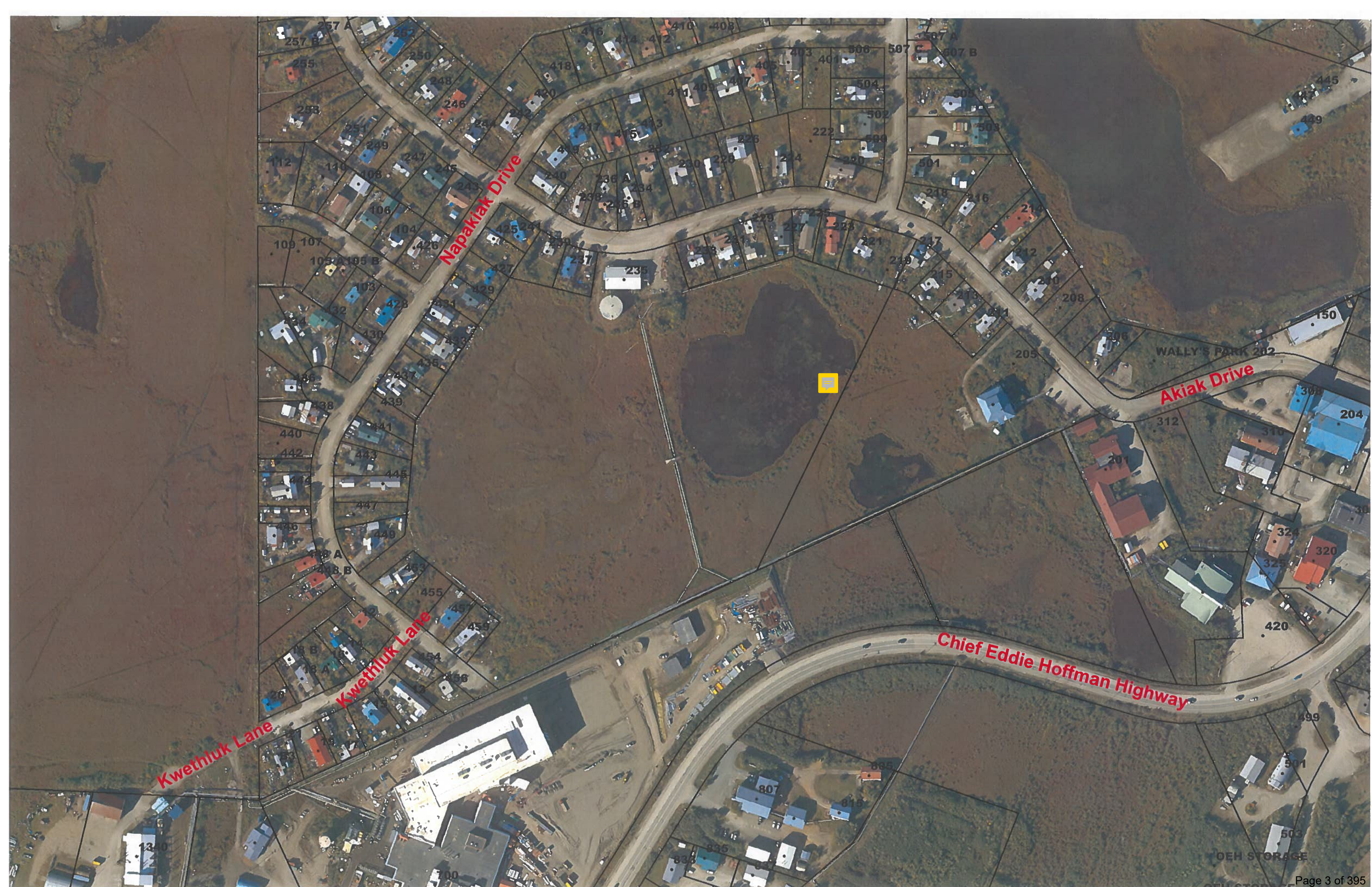
- A. Administration's Report to include Report from YK Fitness Center Contractor

IX. MEMBER COMMENTS

X. ADJOURNMENT

Posted July 5, 2022 at City Hall, AC Co., Swanson's, and the Post Office.

Name, Ex-Officio Staff



ADOT&PF Area Planner Supports the Trail Project

RE: ATAP Grant Notice

← → ↻ <https://mail.google.com/mail/u/0/#inbox/1559d28df7434704>

Apps Alaska Statutes A City of Bethel Imported From IE

CITY OF BETHEL

10 of 19,095

Mail

COMPOSE

Inbox (10,304)

Starred

Important

Sent Mail

Drafts (27)

Circles

#Test

AFG 2011

Ann Capela

APEA Business

Bare Hands Farm

BATH Center

Live, laugh, love in Bethel

Search people...

Adriane Welch

Lori Strickler

Sam Blankenship

Hansel Mathlaw

Peter Williams

William (Bill) Ferguson

Ann Capela

bryan.brandenburg

Cunningham, Tonya

Tonya Hendrix

RE: ATAP Grant Notice

Inbox

9:15 AM (4 hours ago)

Fancher, Donald L (DOT)

to me, David

John,

Your proposed pedestrian trail/bike path looks like a good project to serve the City of Bethel citizens. I am familiar with that route and your proposed replacement of the boardwalk will make it much safer. Good luck with your grant application and project. We at the DOT&PF support your efforts. Thanks for the opportunity to comment.

Don Fancher

DOT&PF Southwest Area Planner III

907-269-0516

From: John Sargent [mailto:jsargent@cityofbethel.net]

Sent: Tuesday, June 28, 2016 4:39 PM

To: Fancher, Donald L (DOT)

Subject: ATAP Grant Notice

Don, the City of Bethel is pursuing grant funding from the Alaska Transportation Alternatives Program grant, per your suggestion to Ann Capela. Our project is nearly ready to submit for funding. I need concurrence or proof of discussion from you that you are familiar with our project. Please send me an email confirming same.

I have attached documents about our proposed trail. This is a partnership between the City and YKHC. The proposed trail would run from the hospital door, around the building, to the tundra, over the waste heat pipe, and to City Subdivision. See the map attached.

We had the trail engineered and the crossing of the waste heat pipe designed to be ADA-compliant. The 8 ft. wide gravel trail will be compacted to 95%, making it ADA-compliant. Cost of the trail is \$400,000. YKHC is putting up the 20% match (\$80,000). City and YKHC promise in MOA to operate and maintain the trail that is on their respective property. Length of trail is 2,800 linear feet. see cost estimate attached.

Let me know if you have any questions about this project. I will contact you tomorrow, if I don't hear from you. Thank you for supporting Bethel and our proposed trail project.

--

John Sargent

Grant Manager

City of Bethel

PO Box 1388

Bethel, AK 99559

907-543-1386

jsargent@cityofbethel.net



June 24, 2016

Marcheta Moulton
Alaska Department of Transportation and Public Facilities
P.O. Box 112500
3132 Channel Drive, #200
Juneau, AK 99811-2500

RE: Recovered Heat Pipe Crossing

Dear Ms. Moulton:

The City of Bethel is applying for funding to construct a gravel trail from the Yukon Kuskokwim Health Center hospital and planned new Primary Care Center to City Subdivision. The trail is expected to make one crossing over the recovered heat pipe owned and operated by the Alaska Village Electric Cooperative, Inc. (AVEC). The heat pipe is about four feet above the surface at the crossing location.

This letter is to inform you that AVEC is in favor of this trail project and the City of Bethel has AVEC's permission to make the crossing over AVEC's recovered heat pipe as long as it is safe for the public to use, constructed to adequately protect AVEC's piped infrastructure, and properly maintained by the City.

Once again, AVEC supports safe pedestrian and bicyclist trail development in Bethel. We are happy to cooperate with the City on this important project. Thank you for allowing us to comment.

Sincerely,

A handwritten signature in blue ink, which appears to read "Meera Kohler", is located below the "Sincerely," text.

Meera Kohler
President and Chief Executive Officer



June 28, 2016

Marcheta Moulton
Alaska Department of Transportation and Public Facilities
P.O. Box 112500
3132 Channel Drive, #200
Juneau, AK 99811-2500

RE: City Support and Commitment for ATAP Grant Application

Dear Ms. Moulton:

The City of Bethel is applying for funding to construct a gravel trail from the Yukon Kuskokwim Health Center (YKHC) hospital and planned new Primary Care Center to City Subdivision. The 2,800 ft. trail will be constructed on the tundra and provide easy access for pedestrians and bicyclists. The path of the trail is perfect to allow individuals to move to and from the hospital and its related facilities to downtown Bethel, where the cultural center, City Hall, courthouse, grocery shopping, and restaurants are located.

The City of Bethel is collaborating with the Yukon Kuskokwim Health Corporation to design and develop a gravel trail that starts at the hospital front door and extends to City Subdivision. This trail will improve the quality of life in Bethel because it will offer a safe, convenient, ADA-compliant trail between two major activity centers. The YKHC campus includes many more buildings than the hospital. The new Primary Care Center and new housing units will be constructed in the new two years. The hospital will be renovated. These new YKHC facilities will stimulate demand to and from YKHC. A well-designed foot path to YKHC facilities and to downtown Bethel will be extremely useful for all the pedestrians and bicyclists who will use it for transportation, exercise, and recreation.

The City of Bethel supports its application for funding a gravel trail that runs from the hospital on YKHC property to Akiak Street in City Subdivision. The Bethel City Council passed Resolution #16-22 supporting development of the trail and its request for funding.

The City of Bethel commits to operating and maintaining the City of Bethel property portion of the trail for 25 years, as stated in the Memorandum of Agreement between the City and YKHC concerning the trail. The City also developed an Operation and Maintenance Plan for the trail that it intends to put into practice upon completion of the trail. You should find these documents in the City's application packet.

It is expected that the proposed new ADA-compliant gravel trail that cuts across the tundra from the hospital to City Center to provide safe access for thousands of individuals every year. Bethel's heavy foot traffic around town will only increase as the population increases. The hospital expansion and new housing complex to be built in the next couple of years will add 300+ new employee residents. We can develop trails and take people off of the roads easier than we can develop roads to accommodate more vehicles. This trail is important for Bethel residents and visitors.

Sincerely,



Ann K. Capela
City Manager



CITY OF BETHEL
Fire Department

William F. Howell III, Fire Chief
P.O. Box 1388, Bethel, Alaska 99559
Phone: (907)-543-2131
Fax: (907)-543-2702
bhowell@cityofbethel.net

Celebrating 50 Years of Service

June 24, 2016

Marcheta Moulton
Alaska Department of Transportation and Public Facilities
P.O. Box 112500
3132 Channel Drive, #200
Juneau, AK 99811-2500

RE: Support for City Trail Funding by the Statewide Transportation Alternatives Program

Dear Ms. Moulton:

The City of Bethel is applying for funding to construct a gravel trail from the Yukon Kuskokwim Health Center hospital and planned new Primary Care Center to City Subdivision. The trail will be constructed on the tundra and provide easy access for pedestrians and bicyclists. The path of the trail is perfect to allow individuals to move to and from the hospital and its related facilities to downtown Bethel, where the cultural center, City Hall, courthouse, grocery shopping, and restaurants are located.

As the Fire Chief and long-term Bethel resident, I know how many people walk in this town to get from one place to another because they do not own vehicles and/or do not want to take taxicabs. The more foot paths the City can provide, the more people we can keep off the roads and the more we can reduce the number of vehicle accidents with pedestrians and bicyclists. The development, operation, and maintenance of trails by the City should be a high priority.

I have reviewed the proposed trail path and understand how it will be constructed. I strongly support the City's effort to obtain funding to construct a safe, easy-to-maintain trail for utilitarian, recreation, and leisure purposes. I hope to see less emergency medical services calls with more people using safe trails to get around in Bethel.

Sincerely,

William F. Howell, III
Fire Chief



CITY OF BETHEL

Planning Department

P.O. Box 1388 • Bethel, AK 99559

Phone (907) 543-5306 Fax (907) 543-4168

www.cityofbethel.org

Celebrating 50 Years of Service

June 27, 2016

Marcheta Moulton
Alaska Department of Transportation and Public Facilities
P.O. Box 112500
3132 Channel Drive #200
Juneau, AK 99811-2500

RE: Site Plan Permit and Wetland Permit

Dear Ms. Moulton:

The City of Bethel Planning Office reviewed the project description for the proposed trail from the YKHC hospital to City Subdivision. The Planning Office finds the trail route to be a safe on-ground pedestrian/bicycle path that will keep users away from vehicles, four-wheelers, and other motorized devices. The path leads from one public transit stop at the hospital and easy walking to a transit stop on the other side of the highway to a transit stop in City Subdivision. The path uses the highest, driest ground. I expect the path to receive heavy use from pedestrians and bicyclists who will use it for safe transportation, health and fitness benefits, and recreation.

I have discussed this gravel trail project with the Corps of Engineers and I expect approval of the permit. The amount of fill needed for the trail is not a material issue relative to the scope of the project.

I am in support of developing this pedestrian/bicycle trail in Bethel and hope to see more safe transportation options emerge. Please feel free to contact me if you have any questions or comments. You can reach me at 907-543-5306 or email me at tmeyer@cityofbethel.net.

Sincerely,

A handwritten signature in blue ink that reads "Ted Meyer".

Ted Meyer
City Planner

CITY OF BETHEL
POLICE DEPARTMENT



June 24, 2016

Marcheta Moulton
Alaska Department of Transportation and Public Facilities
P.O. Box 112500
3132 Channel Drive, #200
Juneau, AK 99811-2500

RE: Support for City Statewide Transportation Alternatives Program Application

Dear Ms. Moulton:

The City of Bethel is applying for funding to construct a gravel trail from the Yukon Kuskokwim Health Center hospital and planned new Primary Care Center to City Subdivision. The 2,800 ft. trail will be constructed on the tundra and provide easy access for pedestrians and bicyclists. The path of the trail is perfect to allow individuals to move to and from the hospital and its related facilities to downtown Bethel, where the cultural center, City Hall, courthouse, grocery shopping, and restaurants are located.

As the Acting Police Chief and Bethel resident for the past six years, I know how dangerous our roads can be and support the development, operation, and maintenance of pedestrian and bicycle trails in Bethel. While vehicles on the roadways typically do not drive that fast or out of control, there are many who operate four-wheelers and snowmachines on the shoulders of the road, making walking on the side of the street especially precarious. The more foot paths the City can provide, the more people we can keep off the roads and the more we can reduce the number of vehicle accidents with pedestrians and bicyclists.

I expect the proposed new ADA-compliant gravel trail that cuts across the tundra from the hospital to City Center to provide safe access for thousands of individuals every year. Bethel's heavy foot traffic around town will only increase as the population increases. The hospital expansion and new housing complex to be built in the next couple of years will add 300+ new employee residents. We can develop trails and take people off of the roads easier than we can develop roads to accommodate more vehicles. This trail is important for Bethel residents and visitors.

Sincerely,

Amy Davis
Acting Police Chief

Bethel Chamber of Commerce
PO Box 329, Bethel, AK 99559
October 28, 2009

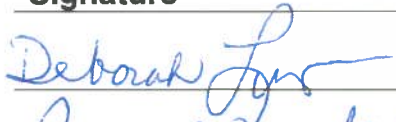
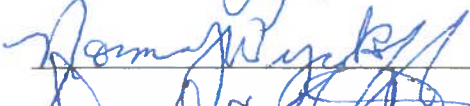
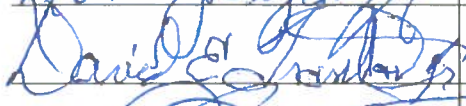
**Bethel Chamber of Commerce Member Support
for Gravel Trail from YKHC to City Subdivision**

WHEREAS, the Chamber of Commerce is interested in community improvements that contribute to the ability of businesses and organizations to recruit and retain employees;

WHEREAS, the City of Bethel is working with the Yukon Kuskokwim Health Corporation on a grant application to request funding to develop a safe gravel trail for pedestrians and bicyclists;

WHEREAS, the proposed gravel trail across the tundra will connect the Yukon Kuskokwim Health Corporation facilities, including the hospital, proposed Primary Care Center, and hospital housing to the center of Bethel through City Subdivision;

As members of the Bethel Chamber of Commerce, our signatures below indicate that we support the City of Bethel's grant application to the Alaska Department of Transportation and Public Facilities to fund construction of a grant-eligible trail for pedestrians and bicyclists in Bethel.

Signature	Printed Name	Business/Employer
	DEBORAH L. WHITE	AVCP
	Norma Wyckoff	AFLAC - self-emp
	David E. Trantham	Retired
	Don Black	Long House Hotel
	Jason Brown	First National Bank



YUKON-KUSKOKWIM HEALTH CORPORATION

"Working Together to Achieve Excellent Health"

June 29, 2016

Marcheta Moulton
Alaska Department of Transportation and Public Facilities
P.O. Box 112500
3132 Channel Drive, #200
Juneau, AK 99811-2500

RE: Support for ATAP Grant and Commitment of Match Funding

Dear Ms. Moulton:

The City of Bethel is applying for funding to construct a gravel trail from the Yukon Kuskokwim Health Corporation (YKHC) hospital and planned new Primary Care Center to City Subdivision. The trail represents a wonderful addition to Bethel's outdoor transportation, fitness, and recreational opportunities.

The on-ground gravel trail was designed by Bettisworth North to be ADA-compliant with its gradual ramp over one set of pipes and 8 feet wide flat surface. The trail will be a safe avenue for pedestrians and bicyclists away from the highway, which is currently dominated by vehicles, four-wheelers, and dirt bikes. The trail will allow residents and visitors in downtown Bethel to access the hospital, Primary Care Center, Phillips Alcohol Treatment Center, hospital housing, and other essential YKHC facilities from City Subdivision. Individuals will also be able to access the Bethel Transit System at both ends of the trail.

The 2,800 foot trail was designed by Bettisworth North, a professional Alaska design and landscape architecture firm. The design specifies how to construct the compacted gravel trail with local fill and purchased gravel. The eight-foot wide trail provides plenty of room for all parties to pass each other on the trail. The wooden ramp going over the pipes in the center of the trail is ADA-compliant with gradual incline, guardrail, and handrail.

Please accept this letter of support for the partnership between YKHC and the City of Bethel in the preparation of a grant application to the Alaska Transportation Alternatives Program. The City and YKHC signed a Memorandum of Agreement formalizing the collaboration to operate and maintain this trail. The MOA states that YKHC promises to operate and maintain the trail on its property for the next 25 years. The City's Trail Operating and Maintenance Plan will serve as a guide for our facility maintenance staff in this regard.

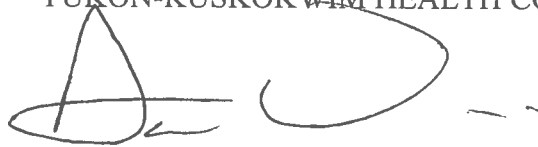
YKHC will provide the required 20% cash match of the cost to construct this project, plus one dollar. According to Davis Constructors and Engineers Inc., the cost of the trail is expected to be \$400,000. Therefore, YKHC will contribute \$80,001 toward the project, if the City's ATAP grant application is approved.

YKHC is preparing to construct on its property, the new Primary Care Center, 54 employee housing units, and renovate the hospital. These new and improved facilities will generate more demand for services from Bethel residents and those living in YK Delta Region. The new facilities will also create a demand for those in residence to walk to the grocery store, visit the library and cultural center, take a class at the college, and attend a City Council meeting at City Hall. People will use the trail to access hospital facilities and housing units at one end, and to access all the facilities located in downtown Bethel at the other end.

I have included my business card with my contact information in case you wish to contact me regarding YKHC's support and commitment for funding to pay for construction of the "YK – City Sub Trail." The community of Bethel stands to benefit greatly from this trail and the grant funding that made it possible.

Sincerely,

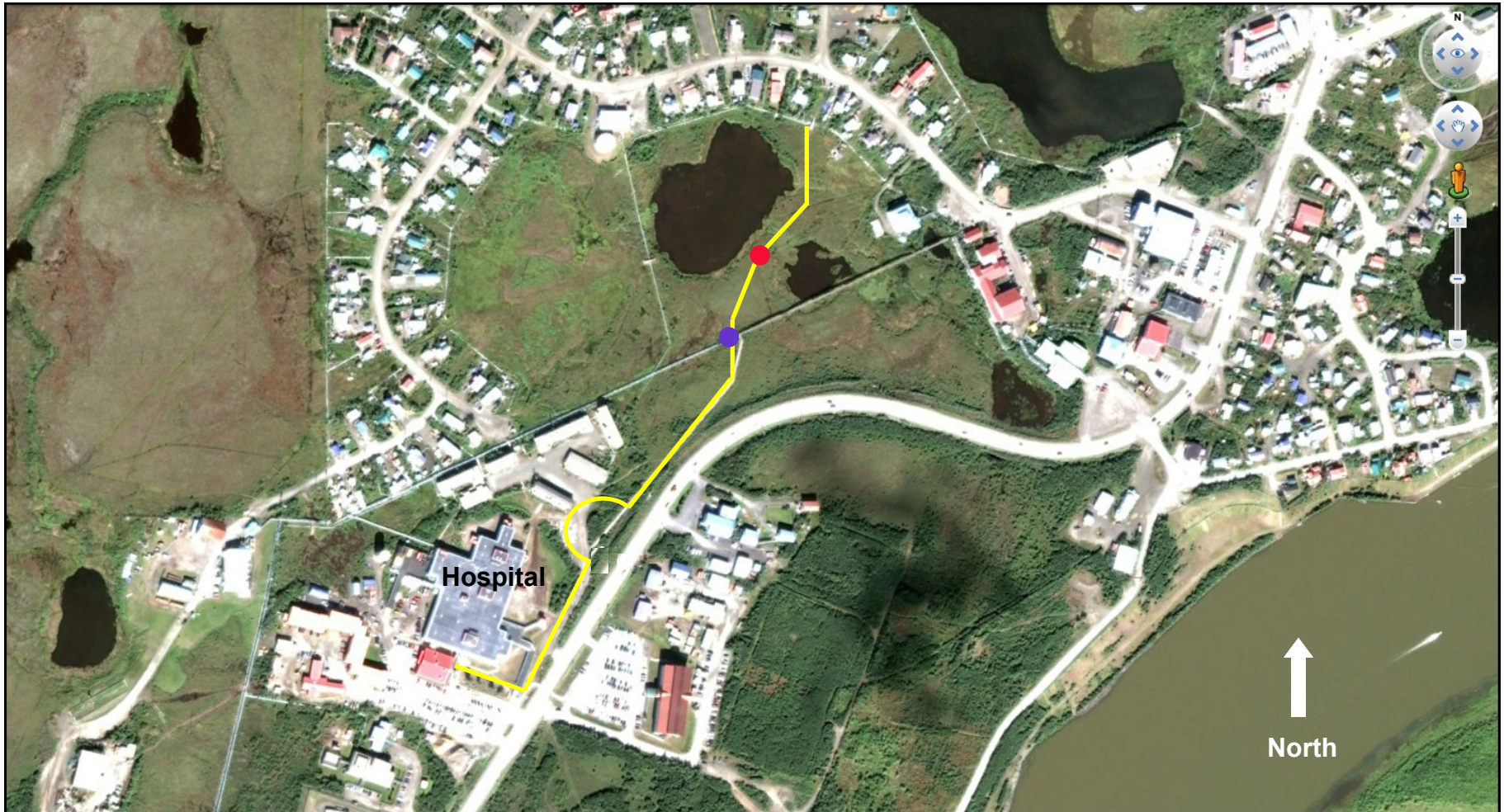
YUKON-KUSKOKWIM HEALTH CORP.

A handwritten signature in black ink, appearing to read 'Dan Winkelman', with a large, sweeping loop at the end.

Dan Winkelman
President and Chief Executive Officer

YK - City Sub Trail

- Gravel Trail Between Hospital and City Subdivision -



Trail starts at the front door of the hospital and goes around the hospital to connect with the Primary Care Facility and hospital housing area before venturing north off the YKHC property to City property where it crosses the recovered heat pipe ● and then goes between two tundra ponds ● to City Subdivision. A pre-treated wooden ramp will be constructed over the pipe and several culverts will be needed to traverse a short, muddy stretch between the ponds. ●

**Memorandum of Agreement
Between
City of Bethel and Yukon Kuskokwim Health Corporation (YKHC)
Boardwalk Trail**

WHEREAS, the City of Bethel ("City") and the Yukon Kuskokwim Health Corporation ("YKHC") desire to work together to develop safe trails in Bethel, especially trails that runs upon land owned by both entities;

WHEREAS, the City and YKHC, view the path between the hospital area and City Subdivision as a critical and necessary means of transportation for the citizens and visitors of Bethel;

WHEREAS, the proposed new trail would greatly benefit the neediest citizens of Bethel as well as those of the surrounding communities who often visit Bethel for necessary medical, dental, psychological care and other necessary services;

WHEREAS, the new gravel trail would provide access to countless individuals and would give them easy and safe access to: City Hall, the University, the hospital, the library, the Fire Department, the Prematernal Home, the Jail, the Juvenile Detention Facility, the Post Office, the movie theater, a sobering center and a soon to open alcohol treatment facility;

WHEREAS, collaboration by the two entities will be beneficial to those who live in and those who visit Bethel, a vast number of which are well below the poverty level and cannot afford to take taxicabs;

WHEREAS, the trail would increase the health of many and would increase safety by keeping individuals off the heavily traveled highway;

WHEREAS, a well-worn dirt pathway already exists, testifying to the heavy use expected from a new hardened trail over the trail stretch of tundra;

WHEREAS, both the City and YKHC are committed to a long-term collaboration arrangement to maintain the new trail;

NOW THEREFORE, the City of Bethel and the Yukon Kuskokwim Health Corporation agree as follows:

1. To collaborate together to maintain a trail running between the two properties (as outlined in the attached map) for a minimum of twenty-five (25) years from the date of construction completion;
2. Each party will maintain that portion of the trail that is on its property so that the trail is free of defects and can provide safe and effective passage for all pedestrians, even those on wheelchairs and those with mobility issues;
3. Maintenance shall be defined as keeping the trail in its originally constructed condition;

4. Each party agrees to post and maintain signage prohibiting motorized objects of any type or size from using the trail (with the exception of motorized wheelchairs);
5. Each party to enforce the above-mentioned rules on its property;
6. Effectiveness of this MOA is dependent on receipt of a Statewide Transportation Alternatives Program (ATAP) Grant;
7. Either party may terminate this MOA upon sixty (60) days written notice to the other party. However, should the trail be constructed with ATAP funds, termination of this MOA shall not be allowed for the first twenty-five years following construction of the trail.

CITY OF BETHEL



Ann K. Capela
City Manager

Dated: 6/29/16

YUKON KUSKOKWIM HEALTH CORPORATION



Dan Winkelman
CEO/President

Dated: 6/29/16

Long Range Transportation Plan

Orutsararmiut Native Council



&

City of Bethel

November 2009

airport and the AC Store, Swansons, Kriders, other stores, and restaurants. Air cargo operators include Alaska Airlines, Lynden Freight, Air Cargo Express, and Alaska Hovercraft.

Alaska Hovercraft has been delivering freight and passengers aboard a 70-foot, 30-ton British-built AP 1-88 hovercraft.

The most typical type of freight is food in lots of 70 pounds each. Several main freight delivery routes are used within the city including the Chief Eddie Hoffman Highway, Ridgecrest, and Main Street. These routes provide an efficient means of transporting goods between the Bethel Airport and the downtown port area as well as the commercial and industrial areas within the city. Additionally, the winter ice road provides a link from Bethel to surrounding villages for the movement of fuel. The airport and port will remain the main points of entry and transshipment for bulk cargo and bypass mail. It is not clear at this time whether Bethel will continue this growth as the cost of living in the Bush is going up. Both Bethel and the surrounding villages may see decreases in population in the next few years.

3.6.2 Transit System

The existing transit system in the city of Bethel is made up predominantly of private taxi, public bus service and boat shuttle services providing transportation not only for residents of Bethel, but also for residents of the outlying villages that use Bethel as a transportation hub. While the local public bus service is newly available; private taxi service is the main transit mode currently available.

The existing taxi service generally operates from three main areas in Bethel. These areas are the Bethel Airport, the AC Store, and Swanson's Store. Trips are generally to and from residential areas to these locations. During the winter months trips are made up the river to the neighboring villages on an ice road on the Kuskokwim River. In the summer, trips to outlying villages are made by small boats originating at the small boat harbor.

The public bus service is operated by the City of Bethel. Currently, the transit system operates Monday through Saturday from 7:00am to 6:30pm at a 30-minute frequency. Regular fare on the bus is \$2.00; elders and children fares are \$1.00. The bus travels from ONC's office building to the U.S. Post Office and has fifteen stops along the way; including YKHC Administration Building, Swanson's, Ayalpik Apartments, BNC Apartments and the hospital. Figure 7 (Appendix A) shows the transit routes. The Tribe is coordinating with Yukon-Kuskokwim Health Corporation (YKHC) and exploring the expansion of their bus route to include the airport; to accommodate patients traveling to YKHC from surrounding villages. It is hoped this system will reduce reliance on the taxi services by providing a more affordable alternative.

3.6.3 Boardwalks

Elevated boardwalks are a partial solution to separating pedestrian traffic from vehicle traffic. Elevated boardwalks are less expensive than at-grade, separated pathways. They are also less intrusive, environmentally as they are constructed on pilings and not solid fill. These elevated boardwalks also funnel pedestrians to appropriate crossing sites by only allowing ingress and egress at certain locations. This increases the safety of the pedestrian. Bethel is home to 5,103.78 feet of boardwalk. The City of Bethel Parks Department is working on increasing the numbers of boardwalks in town.

3.6.4 Trails

The existing trail system in the City of Bethel offers several functions that are vital to everyday life in the city and surrounding areas and are established through decades of traditional use. These traditional trails serve foremost as a transportation link between the city and the surrounding communities but also provide intra-city connections to neighborhoods and business centers. Car ownership in Bethel and the surrounding villages is low. This implies a high reliance on the trail system. The inter-village trails are typically used to transport supplies and to provide a connection for citizens to access the city, state and federal offices, the hospital and other services in Bethel. The inter-village trails also allow for family members to visit each other and travel to basketball tournaments.

During the winter months snow machines, dogsleds, cross-country skiers, and pedestrians make use of the variety of trails. Winter trails also provide links within the city, connecting housing to stores and offices, as well as recreational users. In the summer months many of these same trails are used by ATVs and pedestrians. Local summer trails link neighborhoods (pedestrians and bicyclists) to work places and businesses.

Street Crossings

Most of the traditional trails are important links to the business areas of Bethel and are thus required to cross the roadway system at some point. Major trail/roadway crossings that exist today have been identified near Watson's Corner, the city offices, and near the hospital on Chief Eddie Hoffman Highway. Additional trail/roadway crossings that have been identified are shown in Figure 8 of Appendix A. While no trail crossing markers exist, city personnel have indicated that three crossings will be marked in the very near future.

To date, there are three pedestrian cross walks marked on Chief Eddie Hoffman Highway: one in the vicinity of the Alaska Commercial Store at Watson's Corner, one near the city offices, and one near the hospital. Additionally, school crossings currently exist on Ridgecrest Drive near the high school and on Fourth Avenue near Kilbuck Elementary School.

Trail Connectivity and Activity Generators

Winter trails are especially critical for internal and external connections. Existing winter trails provide links within the city connecting trail users to the high school, the elementary school, Pinkys Park, the commercial nodes, city, state, and federal offices, the hospital, and other services. They also provide links outside the city by connecting villagers to families and services in Bethel. Additionally, summer trails link neighborhoods (pedestrians and bicyclists) to work places and businesses.

3.7 Emerging Issues and Constraints

Below is a discussion of the major issues that were identified as constraints or limitations of the existing local streets and highway system in the 1997 Comprehensive Plan.



City of Bethel

Committees and Commissions

Recommendation to City Council

Committees and Commissions that wish to make a recommendation to City Council should turn this form in to the City Clerk or to the City Council representative on the committee or commission.

Committee/Commission: Parks, Recreation, Aquatic, Health & Safety Center Committee	Chair: Michelle DeWitt
Date Submitted: 6/13/16	Council Rep: Mayor Richard Robb

Background:

The Executive Director of the Yukon Kuskokwim Health Corporation met with the City Manager to discuss the idea of pursuing funding through the Statewide Transportation Alternatives Program to pay for development of one or more trails in the City of Bethel that connect to the health corporation's planned new Primary Care Center and hospital housing, and existing hospital, and other facilities on-site. The City Grant Manager worked with the City Property Maintenance Division, City Planner, and YKHC's consulting firm, Aracadis, to develop a grant-eligible trail on tundra that would run from YKHC to City Subdivision.

The new trail will alleviate much of the safety concern associated with the closed old wooden elevated boardwalk trail that runs from YKHC to the Kuskokwim Campus of the University of Alaska Fairbanks on top of a utility pipe. The construction of the trail will be easy to construct and cost little to operate and maintain.

Recommendation:

The Parks, Recreation, Aquatic, Health & Safety Center Committee recommends that City Council support and encourage pursuit of Statewide Transportation Alternatives Program grant funds to pay for development of the new grant-eligible trail that will run from YKHC property to City Subdivision.

Received by: 
Date: 6/17/2016

CITY OF BETHEL

Resolution # 16-22

SUPPORT AND APPROVAL FOR CITY OF BETHEL TO PURSUE FUNDING FROM THE STATEWIDE TRANSPORTATION ALTERNATIVES PROGRAM

- WHEREAS,** Bethel is the largest rural Alaska town off the road system with 6,275 residents and thousands of visitors and temporary residents from nearby villages;
- WHEREAS,** Bethel is a highly transient community with 35% of the community in low-moderate income status, a low vehicle ownership rate, and a 15% unemployment rate;
- WHEREAS,** many residents and visitors in Bethel walk from place to place out of necessity;
- WHEREAS,** safe, off-road pedestrian pathways offer a convenient alternative to walking alongside the Chief Eddie Hoffman Highway and other roadways that contain vehicles, four-wheelers, snowmobiles, and motorcycles;
- WHEREAS,** the City of Bethel is eligible to apply for pedestrian trail funding from the FY 2013-2016 Statewide Transportation Alternatives Program;
- WHEREAS,** the Yukon Kuskokwim Health Corporation and the City of Bethel are collaborating on the development of a gravel trail that would run from the existing hospital to the Kuskokwim Campus of the University of Alaska Fairbanks;
- WHEREAS,** the trail must be ADA-compliant and the City is working to achieve that outcome;
- WHEREAS,** YKHC is expected to contribute the 20% cash match required by the grant and the City will donate sand from its sand pit;
- WHEREAS,** YKHC will operate and maintain any trail constructed on YKHC property;
- WHEREAS,** the City will operate and maintain any trail constructed on City property and on the property of other entities in which right-of-ways are obtained;

Introduced by: City Manager Capela
Date: June 14, 2016
Action: Adopted
Vote: 6-0

Whereas, the completion of a new gravel trail on the ground will offer a safe, convenient route between the hospital, primary care center, and hospital housing to the college campus, college dormitories, cultural center, and City Hall.

WHEREAS, various methods will be used to limit the trail to pedestrians and bicycles with no motor vehicles;

WHEREAS, the deadline to prepare and submit a grant application is June 30, 2016;

NOW, THEREFORE, BE IT RESOLVED that the Bethel City Council supports and approves of the City preparing and submitting a grant application to the Statewide Transportation Alternatives Program to request funding to develop a new trail from the hospital to the Kuskokwim Campus of the University of Alaska Fairbanks;

ENACTED THIS 14th DAY OF JUNE 2016 BY A VOTE OF 6 IN FAVOR AND 0 OPPOSED.



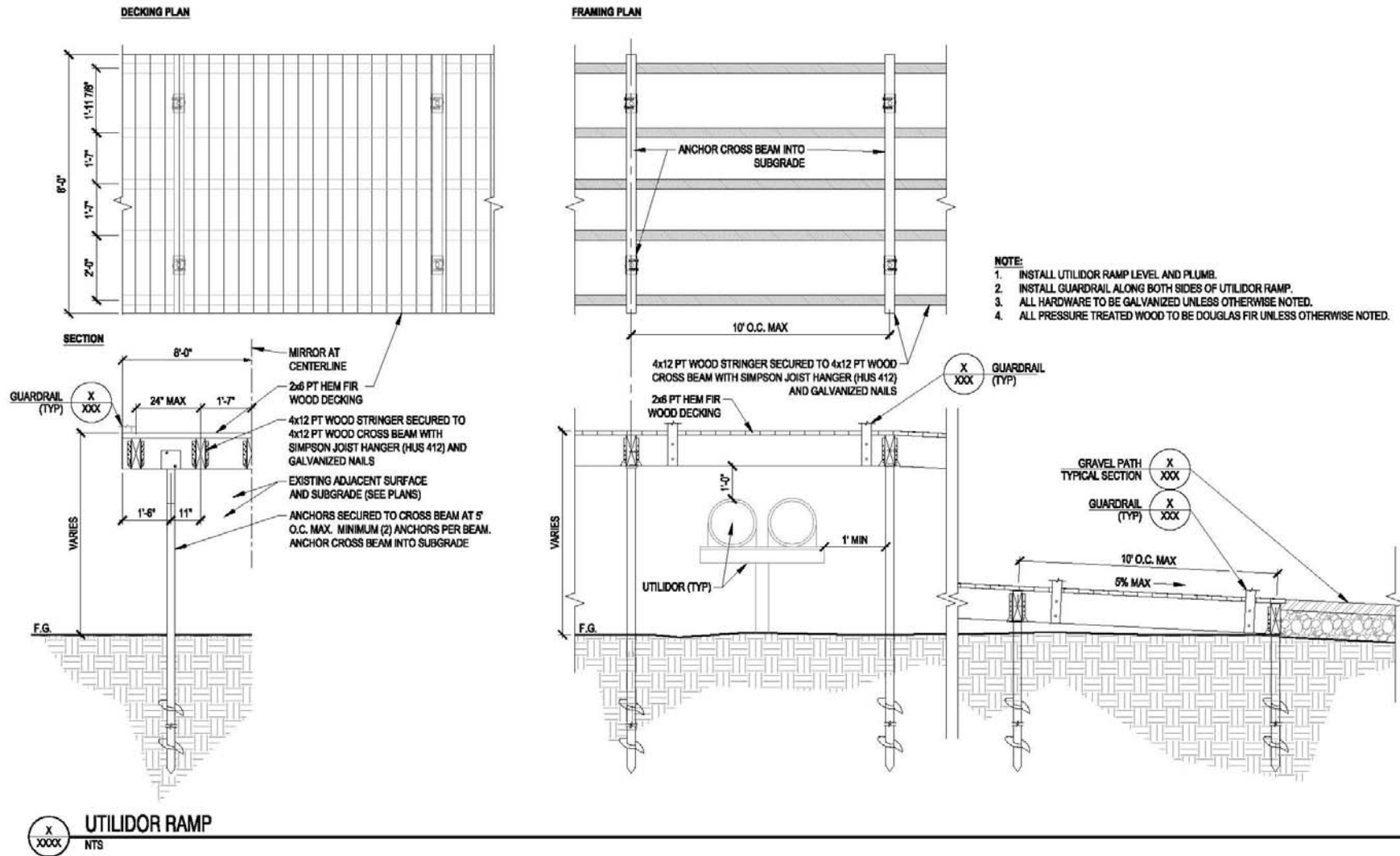
Richard Robb, Mayor

ATTEST:

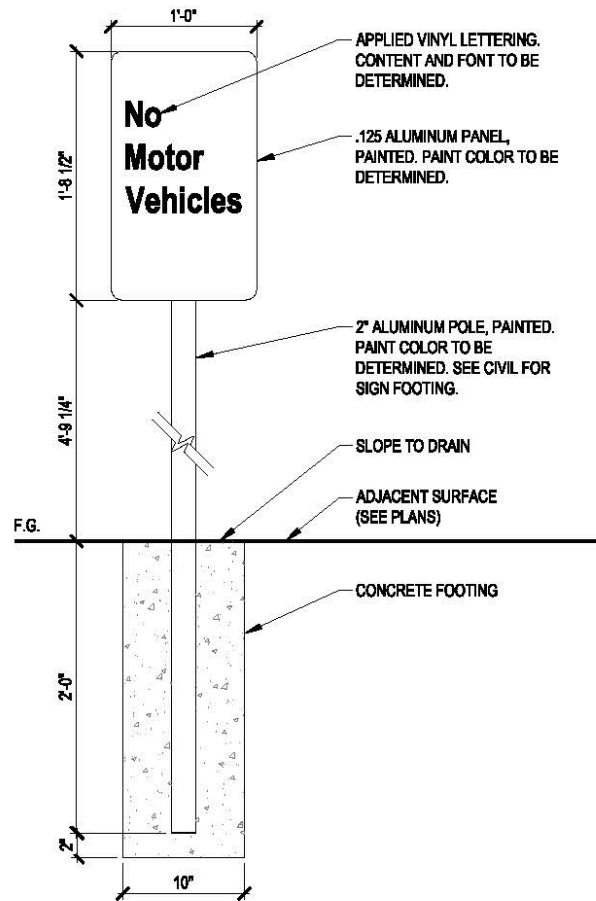


Lori Strickler, City Clerk

City of Bethel YK - City Sub Trail Utilidor Ramp Over Recovered Heat Pipe



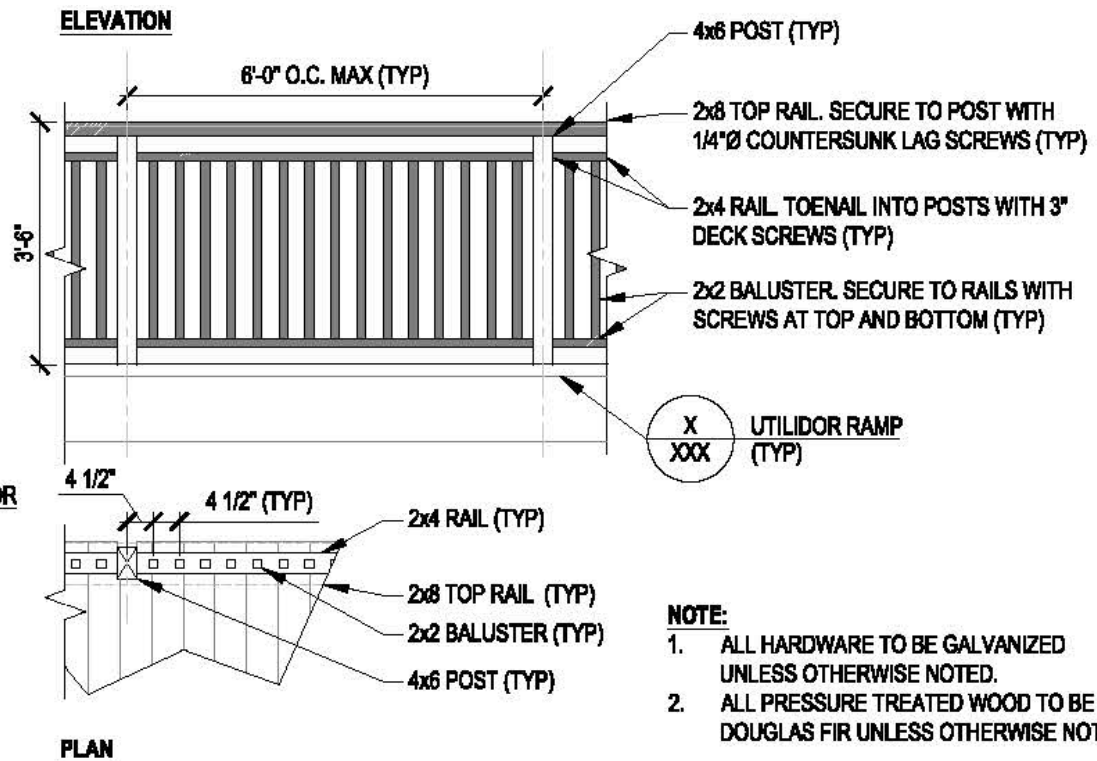
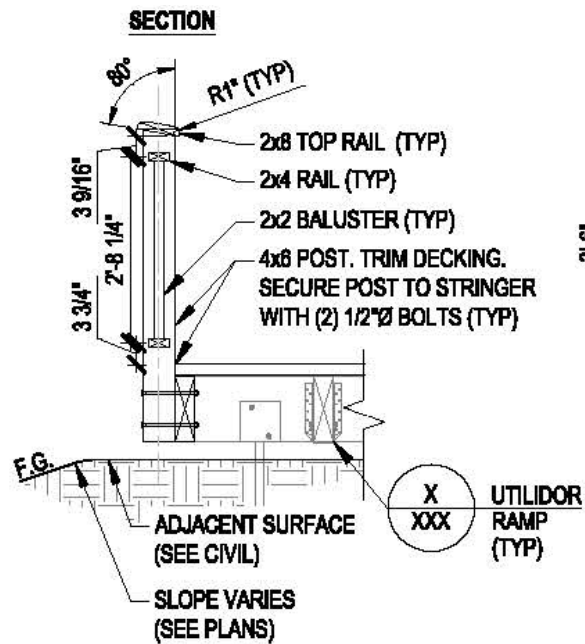
City of Bethel
YK - City Sub Trail
Regulatory Sign Design



REGULATORY SIGN

NTS

City of Bethel YK - City Sub Trail Guardrail



NOTE:

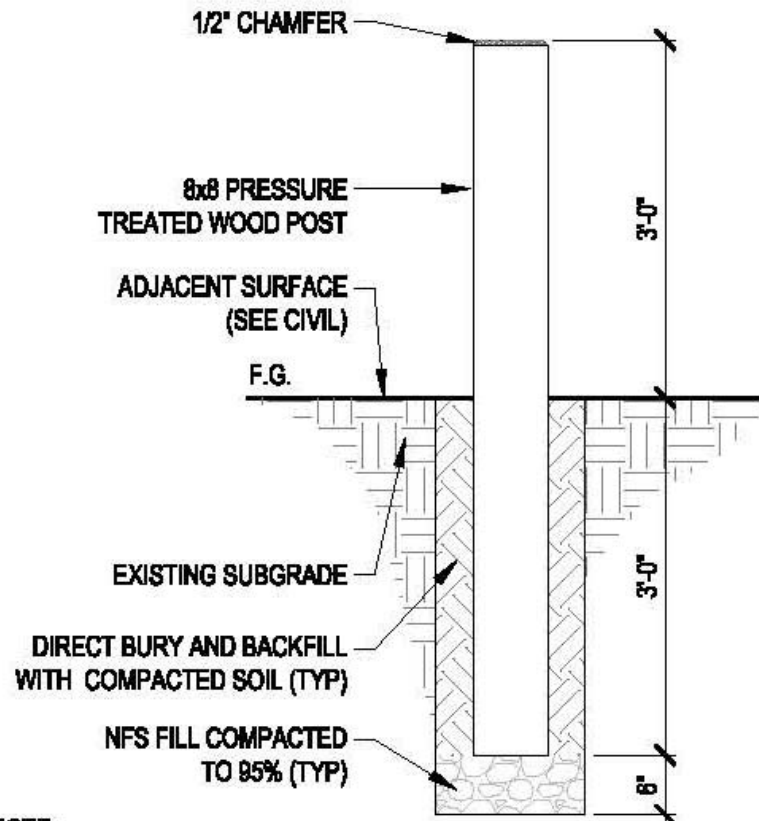
1. ALL HARDWARE TO BE GALVANIZED UNLESS OTHERWISE NOTED.
2. ALL PRESSURE TREATED WOOD TO BE DOUGLAS FIR UNLESS OTHERWISE NOTED.



GUARDRAIL

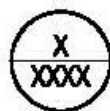
NTS

**City of Bethel
YK - City Sub Trail
Wood Bollard to Prevent Motor Vehicle Access**



NOTE:

- 1) ALL BOLLARDS TO BE INSTALLED SECURELY TO PREVENT MOVEMENT.
- 2) ALL BOLLARDS TO BE PLUMB AND LEVEL.



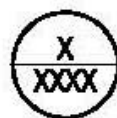
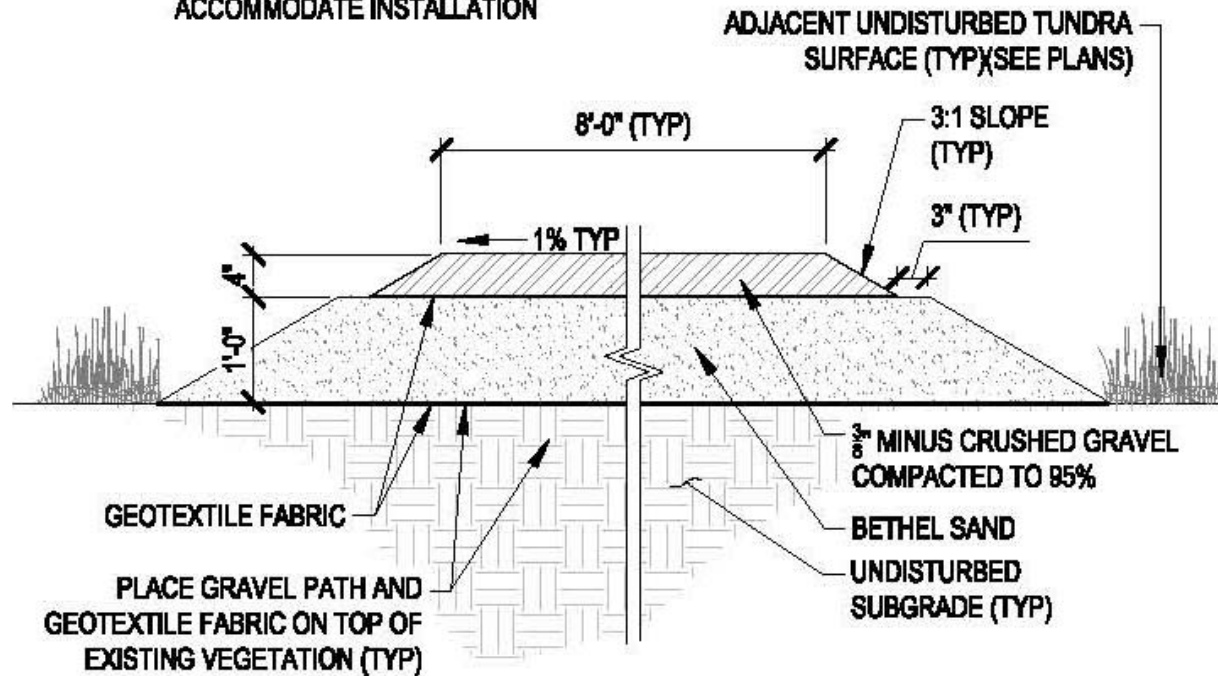
WOOD BOLLARD

NTS

**City of Bethel
YK - City Sub Trail
Gravel Path: Typical Section**

NOTE:

1. RUNNING SLOPE NOT TO EXCEED 5%
2. CROSS SLOPE NOT TO EXCEED 1%
3. WOODY VEGETATION MAY BE CLIPPED TO THE GROUND ON ORDER TO ACCOMMODATE INSTALLATION



GRAVEL PATH: TYPICAL SECTION

NTS

YK to City Sub Trail

Operation and Maintenance Plan

City of Bethel
Updated: June 22, 2016

Effective: April 15 – October 15
6 mos. or 26 wks.

Goal

The goal of the YK to City Sub Trail Operation and Maintenance Plan is to support the operation and maintenance of a safe, convenient, and easily accessible trail in Bethel. An effective operation and maintenance plan identifies what will be done, by whom, how often, and at what cost.

Trail Description

The YK to City Sub Trail starts at the hospital front door and goes left down a sidewalk to the end of the driveway and then turns left and heads northeast, paralleling the highway. The trail veers left as a sidewalk, following another driveway to make a semi-circle before heading northeast in relatively straight line to exit YKHC property. The gravel trail will start on YKHC property and head northeast before heading north to a gradual ramp that crosses AVEC's recovered heat pipes. Once on the other side of the pipes, the ramp turns back to a gravel trail and then heads north between two tundra ponds to exit at Akiak Street. See map attached.

Operation

The operation of this trail entails it being open for public use. The trail will be open after construction and upon placement of the "No Motor Vehicles" signs, one on each end of the trail. The trail will remain in operation as long as it appears safe and no problems with its use surface.

Maintenance

The City of Bethel's Public Works Department, Property Maintenance Division (PMD), will be responsible for operating and maintaining the YK to City Sub Trail. The PMD currently consists of one foreman and three technicians year-round and four technicians during the winter months. The PMD has pickup trucks, one four-wheeler and trailer, and hand tools at its disposal.

The PMD will coordinate the use of heavy equipment for trail maintenance with other City Departments and/or Divisions. City-owned heavy equipment that might be used for maintenance includes: 5-ton roller, skid steer with attachments, dump truck, bull dozer, front-end loader, nodwell.

The City owns an 80-acre sand pit in which topsoil or sand can be drawn and used on the trail. The City typically purchases gravel in bulk and stores it on at the grounds of the Public Words building.

Schedule

The Property Maintenance Division will follow the schedule below during the active summer months (April 15 – October 15) to maintain the trail:

Frequency		Activity	Cost Per Event
Every week		Walk trail; perform visual inspection; converse with users.	\$16.61 (\$22/hr. salary + 51% benefits) * .5 hrs.
Respond to complaints		Respond to complaints from users; estimate work to be done; make notes.	\$16.61 ((\$22/hr. salary + 51% benefits) * .5 hrs.)
Every five years or as needed		Add gravel and fines; use roller to compact to 95%.	\$754 ((\$25/hr. salary + 51% benefits) * 8 hrs. * 2 workers) + \$150
As needed		Add gravel/gravel chips; add fill; repair boards; repair/replace helicals; replace signs.	\$406.76 ((\$22/hr. salary + 51% benefits) * 4 hrs. * 2 workers) + \$150

Assumptions	
# of complaint responses /yr. >	2
# for Every five years or as needed >	1
# of as-needed repairs /yr. >	1
Gravel price = \$60/ton	
Material cost for as needed repair = \$150, including gravel	

Annual In-Kind Cost	\$1,325.84
Annual Materials Cost	\$300.00
Total	\$1,625.84

Records

The Property Maintenance Division will keep records in manila folders on the work performed on this trail. Invoices, P-card statements, quotes, and notes are all part of the record to be kept.

**Statewide Transportation Alternatives Program
FY 2013-2016 Application
City of Bethel**

Project Detail and Purpose

Project Detail

The City of Bethel proposes that funding from this grant be used to construct a new ADA-compliant gravel trail from the hospital to Akiak Street in City Subdivision. This trail project is a collaboration between the City of Bethel (City) and Yukon Kuskokwim Health Corporation (YKHC). The City and YKHC signed a Memorandum of Agreement (MOA) to formalize the partnership for this project. See a copy of the MOA attached.

The Yukon Kuskokwim Health Corporation is about to begin a huge construction project to build a new Primary Care Center next to the hospital, erect more employee housing units, and renovate the existing hospital. The project will cost \$345 million. The expansion project will include several new parking lots and driveways. The proposed trail ties directly to the expansion project. It is planned to wind around several parking lots as a sidewalk would before heading north off property to City Subdivision. See map attached.

The general design for nearly the whole length of trail requires the placement of geotextile fabric over the ground/tundra, placement of fill (sand) on top of it, and then crushed gravel on top of the fill. The gravel would then be compacted to 95%. The length of the trail is 2,800 linear feet. The width of the trail is 8 feet. The use of small gravel to fill in gaps left by larger gravel will aid in the compaction. The design is ADA-compliant.

The trail will start at the hospital entrance area, where there are steps leading up to the door and where there is a covered ADA-compliant ramp also leading to the front door. The trail will serve as a sidewalk as it runs along the building toward the Chief Eddie Hoffman Highway and then heads north to wind around the planned new parking lots. The trail will then head northeast, paralleling the highway, but far enough away from the highway so as to keep trail users out of reach of automobiles.

The trail then leaves YKHC property to run on City property up to the above-ground recovered heat pipe that cuts across the tundra. The pipe is owned and operated by the Alaska Village Electric Cooperative (AVEC) and sits in a utility easement on City property. Please find a letter attached from AVEC giving the City permission to construct a ramp over AVEC pipes. At this juncture, an engineer-designed ADA-compliant wooden ramp will be constructed as part of the trail that allows users to safely go up and over the four-foot high pipe. See engineer schematics attached showing how this ramp will be constructed.

Once on the other side of the recovered heat pipes, the gravel trail will continue north through two tundra ponds to exit at Akiak Street in a residential neighborhood called City Subdivision. There are approximately 218 households in this subdivision. Culverts will be placed under the trail at one muddy area between the two ponds. There may be a one or two other areas that need a culvert. The cost of culverts is priced into the project.

Purpose

The purpose of constructing a gravel trail is to provide a safe, easily accessible pedestrian/bicycle path from the hospital grounds to City Subdivision. The timing of this grant project coincides with the hospital expansion project and ties directly to it. Demand for safe walking paths will greatly increase after completion of the construction project due to the addition of 300 new employees on the YKHC campus and additional on-site housing units.

The trail was designed to be on the ground so that it is not subject to damage from permafrost heaves and sinkages. The trail was designed to be ADA-compliant, including the gradual ramp over the recovered heat pipes.

The trail was designed to allow individuals to walk or ride bicycles easily, conveniently, on a hard-packed surface and not have to walk on the tundra. The irregular soft nature of tundra poses risk of injury to those who try to walk across it for a long distance and it is impossible for bicycles to traverse tundra.

The trail was planned to take pedestrians and bicyclists off the highway and away from busy streets so that less injuries and deaths occur. Two “no motor vehicle” signs will be posted on each end of the trail in an effort to keep four-wheelers off the trail. Wooden bollards will be installed on each side of the ramps going over the recovered heat pipes to keep four-wheelers off the trail.

The trail will connect the hospital, primary care center, housing units, and other YKHC facilities with City Subdivision, a neighborhood containing 218 houses. The trail comes out four houses away from the Kuskokwim Campus of the University of Alaska Fairbanks, and very short walking distance on the road to the Veterans of Foreign Wars Hall, Wally’s Park, cultural center/library, City Hall, courthouse, and Bethel Evangelical Covenant Church. A quarter-mile walk from the Akiak Street trail exit will bring users to five restaurants, a grocery store, retail store, two banks, and Bethel Native Corporation office complex.

A gravel trail was chosen instead of the traditional boardwalk trail to lessen the operation and maintenance costs for the City and YKHC. The City has a great deal of experience with the damage that can occur to boardwalks and how difficult and expensive they are to fix. Human damage to the boards results from vandalism and from use by four-wheelers and snowmachiners. Natural damage to the boardwalks occur from frost heaves and sinkages, sunlight, temperature variations, and expansion pressure when water freezes to ice.

The City spent \$4,000 last year in materials alone on boardwalk repairs. In summer 2016, the City hired a contractor at \$62,000 to repair 1,075 feet of boardwalk, and spent \$7,000 in materials so that four employees could repair another section of boardwalk over a two-day period.

Nearly all types of damage to the boardwalk can be avoided by the installation of gravel trails. See the City's Operation and Maintenance Plan for the YK to City Sub Trail attached.

Is the Proposed Project/Program in an Existing Plan? (List all that apply including section and page numbers).

The Bethel Comprehensive Plan 2035 (September 2011) provides guidance for the development of trails in the community of Bethel. Transportation Goal #3 in the Plan addresses trails: "Provide a safe and efficient trail network to meet current and future needs, for year-round transportation and recreation use by Bethel residents and visitors" (Page 5-10). See copies of Pages 5-10 to 5-12 from the City's Comprehensive Plan attached. The pages contain the Trails Goal and corresponding Strategies, and Action items.

The Orutsararmiut Native Council Community Transportation Plan (November 2009) is a plan co-developed by the Orutsararmiut Native Council (Tribe) and the City of Bethel. It contains a section on trails. See copies of Pages 44-45 attached.

The Orutsararmiut Native Council Community Transportation Plan provides the purpose of existing trails:

The existing trail system in the City of Bethel offers several functions that are vital to everyday life in the city and surrounding areas and are established through decades of traditional use. These traditional trails...provide intra-city connections to neighborhoods and business centers" (Page 45).

The City of Bethel Public Transportation Plan (October 2004) identifies segments in the Bethel population who would benefit from a public transit system. The same segments will also benefit from development of safe trails away from the road network. The five segments identified in the plan (Page 14) include: older adults (65+), youth, households without an automobile, low-income households, and people with disabilities. See copies of Pages E-1 and 14 from the Plan attached.

Health and Quality of Life

Please indicate how this project improves the Health and Quality of life. Air and water quality, neighborhood continuity, enhanced recreational opportunities, enhanced understanding of natural and manmade environment.

Health

The YK-City Sub Trail project will not negatively impact the air quality because it will not contribute to airborne dust. The City has a major problem with airborne dust from the use of motor vehicles on the 16 miles of dirt/gravel roads, and on the highway to a lesser extent. Michael Samuelson, former Chief Executive Officer of the Orutsararmiut Native Council in Bethel, said that one of the findings of the Tribe's airborne pollution study was that dust from paved surfaces is finer and more hazardous once airborne than dust from dirt roads. The dust from paved roads is finer because the friction from the motor vehicles grinds it down.

Compacted gravel on a foot of sand is a safe method of construction. Use of the trail will be free of airborne dust, which cannot be said of the contiguous bike path along the highway.

The use of culverts under certain sections of the proposed trail will allow water to flow freely under the trail. Any waterborne life will continue to be in the water and the water will flow where it would flow naturally. The use of culverts is supported by the U.S. Army Corps of Engineers.

The City Subdivision neighborhood is one of the more concentrated in Bethel, containing approximately 218 households. According to the U.S. Census 2010, the average household size in Bethel is 3. That means that approximately 654 of Bethel's 6,275 residents live in this neighborhood or 10% of the population. A convenient, compacted gravel trail available to people in this neighborhood that connects to a popular destination, the hospital, will assist transportation by foot and foster the health benefits of walking outdoors.

The more safe outdoor trails the City has available, the more pedestrians, joggers, and bicyclists will use them. This trail will likely be part of future 5K run paths held in town every year.

The trail will encourage new doctors, nurses, physical therapists, and other professional who move to Bethel to work for YKHC to get outside and walk on the trail. It will provide new arrivals something to do and an easy way to get to downtown. Its convenient starting location is a strong attractant.

Quality of Life

The quality of life in Bethel will be improved by the construction and use of the YK-City Sub Trail. Individuals who use the trail will be on foot or on bicycle. They will be exercising. They will be walking outside. They can use the trail to access berry-picking sites, see wild water fowl in the spring, summer, and fall, and enjoy the colors of the tundra plants from season to season. Trail users can converse, point out parts of Bethel along the way, and visit destinations together. The trail will encourage camaraderie, friendship, and better employee compatibility.

The trail can be used at the end of a typical workday by YKHC employees. They can walk to the grocery store and back. They can walk to the college to attend a night course, a weekend course, or a cooperative extension course. They can walk to a restaurant for dinner. They can attend a Bethel City Council meeting at City Hall and participate in local government. They can

walk to the library on Saturday to read the newspaper, check out a book or video, or use the free internet available. They can attend an evening concert or other event at the cultural center.

Safety

Please indicate how this project addresses the Alaska Highway Safety Plan goal of reducing the number of bicyclists and pedestrians killed or injured in vehicular crashes.

The YK-City Sub Trail supports the goal of reducing the number of bicyclists and pedestrians killed or injured in vehicular crashes by attracting bicyclists and pedestrians to use the trail while simultaneously pulling them away from the Chief Eddie Hoffman Highway and its associated contiguous bike path. Pedestrians and bicyclists can use the highway bike path to get from City Subdivision to the hospital, but at greater risk. The trail reduces risk.

The YK-City Sub Trail serves as a sidewalk as it goes around the hospital and parking lots, but motor vehicles are traveling slowing in these areas and typically very aware of pedestrians and bicyclists. The trail will still be off the road, off the parking lot, and be a designated walking surface.

The YK-City Sub Trail was designed by a landscape architect/engineer to be ADA-compliant. That means the surface will be hard-packed. The ramp going over the utility pipes has a gradual incline, guardrail, and handrails.

Accessibility/Equity

Please indicate how this project addresses mobility for disadvantaged populations and improved access to everyday activities.

The YK-City Sub Trail has been engineered by the landscape architects at Bettisworth North. See design schematics attached. The trail is ADA-compliant. Gravel and gravel chips will be compact to 95% and the ramp over the four-foot high recovered heat piped was carefully designed to provide a gradual incline on both sides with guardrails and handrails. See schematics attached.

Individuals in Bethel who do not own vehicles, four-wheelers, or scooters will use the trail. City Subdivision contains approximately 420 households. According to the City of Bethel Public Transportation Plan (October 2004) by Nelson/Nygaard Consulting Associates, “over half of all households in Bethel lack regular access to a personal vehicle, compared to less than ten percent nationally” (Page E-1).

Two other Bethel populations will benefit from development of a gravel trail in Bethel: youth under 18 years of age who may use bicycles or walk and residents living below the poverty line. The percentage of people below the poverty line “is nearly two-thirds above the national average” (Page E-1). The percentage of low-moderate income households in Bethel is 35%, according to the U.S. Census statistics used by the federal Housing and Urban Development agency that oversees the Community Development Block Grant program.

Connectivity

Please indicate how this project addresses connectivity to other transportation choices and destinations.

Bethel Transit System Connection

The YK-City Sub Trail begins on the south side on the ground, at the hospital entrance area. This is one of the most popular stops for the Bethel Transit System. Hospital employees, patients, and visitors use this bus stop Monday through Friday from 6:30 am to 6:00 pm.

The north side of the YK-City Sub Trail is adjacent to a bus stop in City Subdivision. This bus stop has a wooden blue shelter constructed by the boyscouts. The bus stop shelter will be replaced in fall 2016 by one of the City's newly ordered four-sided plexiglass bus stops. The bus stop shelter will provide weather protection for pedestrians using the trail and bus passengers.

Taxicab Connection

There is a special taxicab drive in front of the hospital where taxicabs wait in line to take passengers to other locations in Bethel. The YK-City Sub Trail will run along this drive like a sidewalk and allow anyone on the trail to catch a cab or someone who exits a cab to use the trail.

Destinations

Destinations within a quarter-mile of the south hospital end of the YK-City Sub Trail include the following: hospital, Primary Care Center (under construction), YKHC employee housing buildings, YKHC administration building, Ayaprun Elitnarvik Elementary School, Suurvik movie theater, Phillips Alcohol Treatment Center, and Public Health Nursing building.

Destinations within a quarter-mile of the north end of the trail include: City Subdivision housing area, Bethel Courthouse, Wally's Park (playground), City Hall, KYUK Radio Station, Bethel Evangelical Covenant Church, and community cultural center/library.

People who use the trail and emerge at the hospital can continue on the pedestrian/bike path contiguous to the Chief Eddie Hoffman Highway which runs west three miles to the airport or east 2 miles to the Alaska Commercial Company grocery store, school district administration building, and two elementary schools and the Bethel Regional High School. The bike path is paved like the highway and separated from the highway by white painted lines on the road.

Other Contributions

Local, other agency or user contributions (in excess of required match).

The Yukon Kuskokwim Health Corporation is contributing the full 20% match requirement as a cash contribution, plus one dollar more. This additional dollar symbolizes that the local commitment exceeds the required minimum amount.

The City of Bethel will contribute the Grant Manager's time to prepare internal documents to approve the grant and secure the grant agreement. The Grant Manager will prepare the Request for Bids/Proposals to hire a contractor to complete the work and manage the invoices and payments through the Finance Department. The Grant Manager will work with the City's General Ledger Analyst to prepare, submit, and file grant reports.

The City's Property Maintenance Foreman will be responsible for overseeing the contractor's work and ensuring the work is done according to the design. The Foreman has three subordinates to assist in this role.

The Yukon Kuskokwim Health Corporation (YKHC) is constructing a new Primary Care Center, new employee housing, and renovating its hospital. Although uncertain at this point, there may be enhancements to the proposed trail as part of this substantial construction project. Enhancement may include benches, signage, rain cover, or bus shelter on the YKHC property portion of the trail.

Ownership/Maintenance/Operations

Please indicate you have consulted with your ADOT&PF Regional Area Planner and identified (after project completion) who will assume ownership, including operations and maintenance costs.

The City of Bethel shared project information with Don Fancher, Central Area Planner, by email. Mr. Fancher responded with an email stating, "Your proposed pedestrian trail/bike path looks like a good project to serve the City of Bethel citizens...We at the DOT&PF support your efforts." Although Mr. Fancher stated that the proposed trail will replace the boardwalk, the gravel trail is a new trail that follows a similar route as an old boardwalk trail on YKHC property. The new gravel trail does follow torn up tundra where four-wheelers and motorcycles have forged their own path. See a copy of the email from Mr. Fancher attached.

Project Readiness and Viability

Please describe to what extent does the project have support from local government and the community/public (such as resolution of support, including in an adopted plan, feasibility study, comprehensive plan, or request from a community group). Is the project shovel ready?

Local Project Support

Please find the following local government support document attached: City of Bethel Resolution #16-22: Support and Approval of City of Bethel to Pursue Funding from the Statewide Transportation Alternatives Program. The resolution was approved by a vote of 6-0.

On June 17, 2016, the City's volunteer-based Parks, Recreation, and Aquatics Health and Safety Committee approved a formal recommendation to the Bethel City Council in support of this grant application and the proposed new grant-eligible trail that would run from YKHC property to City Subdivision. See a copy of the recommendation attached.

Please find support letters attached for this project from the Fire Chief, Acting Police Chief, City Manager, City Planner, and members of the Bethel Chamber of Commerce. Further support is provided in the letter from the Alaska Village Electric Cooperative giving the City permission to cross the recovered heat pipes. See a copy of this letter attached.

The Bethel Comprehensive Plan 2035 (September 2011) provides guidance and support for the development of a safe and efficient trail network. The proposed YK-City Sub Trail accomplishes the following action/policy recommendations in the Plan:

- Partner with other agencies...to plan for, reserve, and fund trails.
- Connect trail routes to major community facilities (e.g., City Sub, Post Office, Pinky's Park) and public transit stops.
- Pedestrian pathways (boardwalks and other systems) shall be accommodated in the downtown area so that travel between adjacent neighborhoods, schools, and the business and office centers is safe and efficient.
- Pedestrian and bicycle connections should be required along roads where land uses are concentrated and between buildings and parking area.
- Study alternatives for trail crossings of aboveground utilities.
- Minimize environmental impacts (e.g., dust, erosion, soil compaction) of ATV use.
- Priority should be given to developing accessways to major activity centers within the Bethel Urban Growth Boundary (e.g., downtown commercial center, schools, community centers).

Shovel Readiness

The YK-City Sub Trail is near shovel-ready. The trail project design and specifications have been prepared with the help of Arcadis providing project management services, Bettisworth North designing the trail and developing the schematics, and CRW Engineering and Davis Constructors & Engineers, Inc. providing the cost estimate. See drawings/schematics and cost estimate attached. The drawings detail the trail composition, utility pipe crossing, sign installation, bollard installation, and guardrail construction.

City Planner Ted Meyer reviewed the project, trail path, and believes it will provide many benefits to the community. He is prepared to issue a Site Plan Permit for the project after the U.S. Army Corps of Engineers issues a wetlands permit, which he expects Corps approval. See his letter attached indicating same.

The City of Bethel and Yukon Kuskokwim Health Corporation have a signed Memorandum of Agreement that spells out each entity's responsibility for the operation and maintenance of the trail, once completed. See a copy of the Memorandum attached.

The City obtained a letter from the public electric utility in Bethel, the Alaska Village Electric Cooperative, that gives the City permission to cross their recovered heat pipes with an engineer-designed ramp. See a copy of the letter attached.

City attorney Patty Burley said that no easements for right-of-ways are needed for this trail to be constructed. The reason is that both landowners, YKHC and the City, can choose to construct the trail on their respective property as a right of ownership.

The City of Bethel has a YK to City Sub Trail Operation and Maintenance Plan completed and ready to implement. This plan describes the tasks to be undertaken by City personnel, equipment, and materials and the in-kind and out-of-pocket cost of the maintenance expected. See a copy of the Plan attached.

The Yukon Kuskokwim Health Corporation agreed in a letter attached to provide \$80,001 in cash match to the project. This commitment from one of the two partners in the project makes the project more ready to implement.

The City is confident that the final NEPA-approvals from agencies and relevant entities can be obtained in six weeks. This project is simple, provides a minimal footprint over the area it traverses, and has little to no negative impacts to the environment.

Other Factors

Any other factors that may not be addressed in the questions above.

The installation of the gravel trail has the potential improve YKHC, City, and Courthouse employee morale, health, involvement in the community, and self-esteem. The better employees feel about themselves, the more likely they are to be content in their new job and living in Bethel. Practically every private business, organization, and government entity in Bethel has recruitment and retention issues. Everything the community can do to enhance the quality of life in Bethel is a step close to having employees agree to move to Bethel and live and work in Bethel for an extended period of time. The YK-City Sub Trail represents another small project that has the potential to help recruit and retain employees.

**Statewide Transportation Alternatives Program
FY 2013-2016
Application**

Project Name YK - City Sub Trail	
Project Location Bethel, Alaska	
Project Limits	Start: <u>Entrance Area of Hospital</u> Finish: <u>Akiak Street in City Subdivision</u> Length: <u>2,800 linear feet</u>
Eligible Project Sponsor (See TAP instruction for eligible sponsor list) NA. City of Bethel pursuing funding as an eligible applicant.	
Government Entity City of Bethel	
Applicant Information Agency/Organization: <u>City of Bethel</u> Department: <u>Finance Department</u> Name: <u>John Sargent</u> Title: <u>Grant Manager</u> Email: <u>jsargent@cityofbethel.net</u> Phone: <u>907-543-1386</u> Address: <u>PO Box 1388</u> City, State, Zip <u>Bethel, AK 99559</u> DUNS #: <u>082508458</u> FAIN: _____	

Project Detail and Purpose:

See narrative attached.

Project Category (See TAP instructions for the description of project categories):

- ☒ Bicycle and Pedestrian Facilities
☐ Safe Routes
☐ Historic Preservation
☐ Safety

Project phases already completed (Select all that apply):

☒	Design
☐	NEPA Document (if applicable)
☐	Feasibility Study
☐	Partial Construction
☒	Other: Letter from City Planner states Corps of Engineers should issue wetland permit.

Right of Way:

Right of Way Required?

Yes	☐
No	☒

Right of Way has been Acquired?

Yes	☐
No	☒

If yes, what percent (%) had been acquired? Not needed for owned land.

Is the Proposed Project/Program in an Existing Plan? (List all that apply including section and page numbers).

See narrative attached.

Land use within a quarter of a mile (1/4) of your project. (select all that apply)

☒	Residential (describe): City Subdivision neighborhood
☐	Employment/Retail Center (describe):
☒	School (describe): Kuskokwim Campus of University of Alaska Fairbanks
☐	Recreation Center (describe):
☐	Federal Public Land (describe):
☐	Other: (describe)

Requested Funding

Are Matching Fund Available? (A local match of 20 percent (%) is required for all projects).

	Yes, funds are already locally programed
✓	Yes, Funds will be locally programed
	No
	Not Sure

Total Project Cost: \$ 400,000.00		
Type of Activity	Federal Amount Requested (up to 80% of total project cost)	Local Match (at least 20% of total project cost)
Construct trail	\$ 319,999.00	\$ 80,001.00
	\$	\$
	\$	\$
	\$	\$
	\$	\$
States Requirement of ICAP (5%) Eligible for federal funding	\$ 20,000.00	\$ 0.00
TOTAL	\$ 339,999.00	\$ 80,001.00

Final Report

City of Bethel Public Transportation Plan



Submitted
October, 2004

EXECUTIVE SUMMARY

This Public Transportation Plan was commissioned by the City of Bethel to offer conclusive findings regarding the need for a new public transit system in the community. Local bus service currently is not available in Bethel; however, the city is served by a thriving taxicab industry and limited client transportation services operated by the Chief Eddie Hoffman Senior Center, the Bethel Youth Center, and Yukon-Kuskokwim Health Corporation (YKHC).

The question of need for public transit in Bethel was addressed in several ways, including personal interviews with over 25 city residents perceived as “stakeholders” in local transportation issues; public comments received during a July 2004 Town Meeting focusing on existing services and unmet needs; demographic analyses using 2000 census data to identify population segments that typically depend most on public transport; and a comparative review of six small transit systems currently operating in rural Alaskan communities similar to Bethel.

Seemingly there is widespread consensus among these sources that unmet transportation needs do exist in Bethel. Population segments mentioned most often include: Lower income workers who cannot afford to use taxicabs on a daily basis to commute; elders and persons with disabilities making routine daily trips to the post office and local stores; residents of outlying villages who visit Bethel for a range of necessities; young people generally under the age of 18; and those among the general public seeking an alternative to driving to major community events, such as the Camai dances and high school basketball games.

Community demographics are highly supportive of public transportation in Bethel, where the percentage of young residents under 18 years of age is 50% above the national average, and the percentage of residents living below the federally defined poverty line is nearly two-thirds above the national average. Similarly, over half of all households in Bethel lack regular access to a personal vehicle, compared to less than ten percent nationally. The percentage of elders residing in the City of Bethel, while historically low, is rising faster than the general population.

Consistent with prevailing community sentiment, a fixed route transit system design is recommended with posted bus stops and published schedules. The proposed system consists of three routes serving North Bethel, East Bethel and the State Highway corridor west to the airport. A conservative approach to implementation is suggested, beginning with a basic route network and relatively modest service levels, followed by growth in steps as ridership warrants and finances permit. Two buses would run hourly on weekdays from 6:30 am until

2.3.1 Census Indicators

A common approach to identifying public transportation need is to utilize census data as available to focus on five defined population segments that typically have the greatest need for public transportation. These segments include:

- Older Adults - persons over 65 years of age
- Youth - persons under 18 years of age
- Low-income households
- Households without an automobile
- Persons with disabilities

Older Adults – The 2000 census reported that approximately 3.9% of the population of the City of Bethel are 65 years of age or older, which suggests a current population of about 215 older residents in the city. This number is low relative to the distribution of older adults in the larger Bethel census area (5.2%); statewide (5.7%), and nationwide (12.4%). Senior Services transportation logs listed a total of 38 elders registered for bus service during the month of July 2004, which represents less than 18% of the total population over 65. Ten of these elders reside in the Ayalpik Apartments on Atsaq Street near Ridgecrest Drive; four others live at the Lulu Heron Congregate Home on Ptarmigan Street; and most of the others live in individual homes located east of Ridgecrest Drive and Mission Lake.

One informed local estimate is that more than 100 elders require some level of transportation assistance, but presently cannot be accommodated by the one available senior bus.¹¹ Most of these elders live on fixed incomes supplemented by subsistence living, and cannot afford to use taxicabs regularly for routine daily trips to the Post Office, grocery stores, hospital and other personal business destinations around town. Many trips must be deferred as a result, at times including essential medical trips.

Youth – Bethel has a relatively high percentage of residents who are under 18 years of age. The 2000 census reported that approximately 38.3% of the population was under 18, compared with 30.4% statewide and 25.7% nationally. This suggests that an estimated 2,200 youth reside in the City of Bethel at the present time. The vast majority of these individuals are either too young to drive or reside in households that cannot afford a car. Currently, young people in Bethel depend heavily on bicycling and walking to make non-school trips during the year, and many use snow machines during the winter months as well. Major destinations for young people in Bethel include the Youth Center on Mission Drive, Bethel High School for after-school events when yellow school bus

¹¹ Interview with Louise Charles, Director of Senior Services, June 14, 2004.



BETHEL

COMPREHENSIVE PLAN

2035

SEPTEMBER 2011

prepared by AGNEW::BECK Consulting
for the City of Bethel, Alaska



Trails

GOAL 3: Provide a safe and efficient trail network to meet current and future needs, for year-round transportation and recreation use by Bethel residents and visitors.

Strategy 1: Plan and develop a network of multi-modal streets, accessways, and other improvements, including bikeways, walkways, and safe street crossings, to promote safe and convenient bicycle and pedestrian circulation within the community.

Action 1a: Revive the Trails Committee.

Action 1b: Document existing and traditional trails.
Out of town trails are reserved by 17B easements.

Action 1c: Incorporate the existing traditional trail network system and pedestrian needs when extending the road system.

Action 1d: Partner with other entities, such as the ADOT&PF, BNC, and other landowners, to plan for, reserve and fund trails.

Action 1e: Designate and mark trails to minimize damage to land.

Action 1f: Connect trail routes to major community facilities (e.g., City Sub, Post Office, Pinky's Park) and public transit stops.

Action 1g: Construct new year-round trails (or converting existing seasonal trails to year-round use).

Action 1h: Pursue BIA and FHWA funds for trails.

Policy 1i: Pedestrian pathways (boardwalks and other systems) shall be accommodated in the downtown area so that travel between adjacent neighborhoods, schools, and the business and office centers is safe and efficient. (*L RTP Policy #3*)

Policy 1j: Pedestrian and bicycle connections should be required along roads where land uses are concentrated and between buildings and parking areas. (*L RTP Policy #4*)
Public discussion went even further: residents suggested that walkways and/or paths be included in every road project (new or improvements to existing), and that a walkway/path be incorporated into plans to pave Ptarmigan.

Policy 1k: Retrofitting existing arterials and collectors with bike, ATV and snowmobile lanes shall proceed on a prioritized schedule as appropriate and practical (i.e., snowmobile lanes may not be appropriate in areas where street width is less than 50 feet).

Policy 1l: Maintenance and repair of existing snowmobile trails, bikeways and pedestrian accessways (including walkways) will have the same priority as the maintenance and repair of motor vehicle facilities.

Policy 1m: The Bethel Planning Commission will continue serving as an advisory committee to protect and promote trail and pedestrian transportation within the Bethel Urban Boundary.

Strategy 2: Address multi-use conflicts between roadway and trail users.

Action 2a: Place signs at trail and pedestrian crossings and identify access points.

Action 2b: Improve the safety of road-trail crossings (e.g., signage, under-/over-pass).

Action 2c: Consider alternatives that would provide for trail users to use road right of way.

Action 2d: Study alternatives for trail crossings of aboveground utilities.
Water/sewer pipes have blocked some trails.

Policy 2e: Minimize environmental impacts (e.g., dust, erosion, soil compaction) of ATV use.

Policy 2f: Pedestrian crosswalks should be provided at regular intervals, especially in residential neighborhoods and near schools. (*L RTP Policy #5*)

Policy 2g: Bikeways, snowmobile and pedestrian accessways shall be designed and constructed to minimize potential conflicts between transportation modes. Design and construction of such facilities shall follow the guidelines established by the Alaska Bicycle and Pedestrian Plan.
Strategy 3: Reserve trail routes, targeting connections that provide pedestrian access to the river, parks, and pedestrian connections among key public facilities (e.g., school) and residential neighborhoods.
Action 3a: Develop and maintain a safe, continuous, multi-use path along Chief Eddie Hoffman Highway between the downtown business area and the airport to include bicycle, running, and walking routes.
Policy 3b: To the extent possible, bicycle/pedestrian trails or paths should be established along roadways as these are built (new) or upgraded (existing).
Policy 3c: All new subdivision shall incorporate into the lot layout, to the extent practicable, the traditional winter and summer trail system as identified (in LRTP, Maps 4 and 6). The City's ten percent open space set-aside may be used to protect trail networks. (<i>LRTP Policy #1</i>)
Policy 3d: All new subdivisions shall incorporate into the lot layout, to the extent practicable, the tundra village trail network that links Bethel to regional villages. (<i>LRTP Policy #2</i>)
Policy 3e: Consider the potential to establish or maintain accessways, paths, or trails prior to the vacation of any public easement or right-of-way.
Policy 3f: As part of the development review process, identify existing and future opportunities for bicycle and pedestrian accessways; reserve rights-of-way, as appropriate.
Policy 3g: Snowmobile and pedestrian accessways shall connect to local and regional travel routes.
Policy 3h: Priority should be given to developing accessways to major activity centers within the Bethel Urban Growth Boundary (e.g., downtown commercial center, schools, community centers).
Policy 3i: Bicycle parking facilities should be provided at all new residential multifamily developments of four units or more, commercial, industrial, recreational, and institutional facilities.

Background

Bethel has a well-used system of traditional trails and pedestrian boardwalks that provide routes between neighborhoods and business centers within the city, as well as a transportation link between Bethel and surrounding communities. In winter, trails are used by snow machines, dogsleds, cross-country skiers, and pedestrians. In summer months, trails are used by ATVs, pedestrians, and bicycles.

Bethel has about one mile of elevated boardwalk, serving pedestrian traffic. The system of boardwalks is safer for pedestrians than on-street walking routes because it is separated from road traffic and routes lead to appropriate crossing sites. The elevated boardwalks are less expensive than at-grade, separated pathways and have fewer environmental impacts because they are constructed on pilings, rather than solid fill. The Bethel Parks and Recreation Department is currently working to expand the system and establish sections of trail and trail connections, preferably with formal easements. Some trails have already been disrupted by overland water pipes; planning and securing easements can help to minimize such disruption in future. Priorities for new trail routes include:

- trails that connect parks,
- trails that offer a pedestrian facility away from roads to minimize dust impacts,
- trails that connect key locations and existing routes (e.g., Post Office to Pinky's Park),

- loop routes (e.g., Brown Slough), and
- school routes for kids (e.g., along Ptarmigan, across the doughnut hole).

Public Transit

GOAL 4: Provide effective and efficient public transit.
Strategy 1: Improve public transit services.
Action 1a: Purchase a machine to make public transit passes.
Action 1b: Construct shelters at bus stops.
Action 1c: Implement a bus tracking system to provide real-time estimates of bus arrivals.
Action 1d: Incorporate public transit-design features into new development standards.
Action 1e: Build a bus shelter to accommodate buses, maintenance equipment and materials.
Action 1f: Increase the frequency of service (i.e., buses run more often).
Strategy 2: Expand the public transit system.
Action 2a: Consider extending public bus service to the airport and currently un-served subdivisions (e.g., Kasayulie, Tundra Ridge).
Action 2b: Consider expanding public transit system to include a river bus (ferry) service on the Kuskokwim.
Action 2c: Purchase new public transit vehicle(s), as needed, to expand the fleet and enable additional service/routes.

Background

Alternatives to private vehicle include taxi service, bus service and boat shuttle services; these are used extensively by Bethel residents and visiting residents from outlying villages. Public bus service (a more affordable alternative to taxi service at \$2 per passenger; \$1 for elders and children) began in 2008. The system includes two 12-passenger buses and one eight-passenger backup bus. It operates Monday through Saturday from 7a.m. to 6:30 p.m. Current use is estimated at 80-90 rides per day. See Map 5.4 for route information.

Bethel's public transit system is a cooperative effort between the City of Bethel and Orutsarmiut Native Council (ONC). ONC is currently coordinating with the Yukon-Kuskokwim Health Corporation (YKHC) to explore a possible expansion of the existing route to include the airport in order to accommodate patients traveling to YKHC from surrounding villages.

June 27, 2016

Yukon-Kuskokwim Health Corp.
c/o Kent Crandall, ARCADIS U.S., Inc.
880 H Street, Suite 101
Anchorage, AK 99501

Subject: City of Bethel Trail Estimate

Kent:

Per your request, we recently completed an estimate for the cost of the gravel trail, including the utility ramp crossing, culverts and other information you provided from the City of Bethel. Our estimate breaks down as follows.

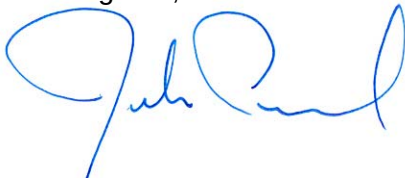
- Total length estimate from Google Earth and the drawing for the trail is 2,800lnft
- We estimated an 8' top with side slopes at 3:1.
- We included a geofabric liner over the tundra, followed by sand and 6-8" of imported gravel.
- We estimated one utility crossing ramp per the detail given
- We included an allowance for 10 culverts

Our quantity takeoff is as follows:

- Misc Site work for cuts, fills and transitions
- Geotextile separation fabric: 61,600sf
- Sand Import/Place/Grade: 3,300cyds
- Gravel Purchase/Import/Place/Finish Grade: 2,400tons
- Boardwalk Utility Crossing (all inclusive)
- Allowance for 10 Culverts
- 2% Contingency
 - o Total Estimate = \$400,000

Please let me know if you have any questions.

Best Regards,



Josh Pepperd
President/CEO



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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Caterpillar CS56B Documentation 97

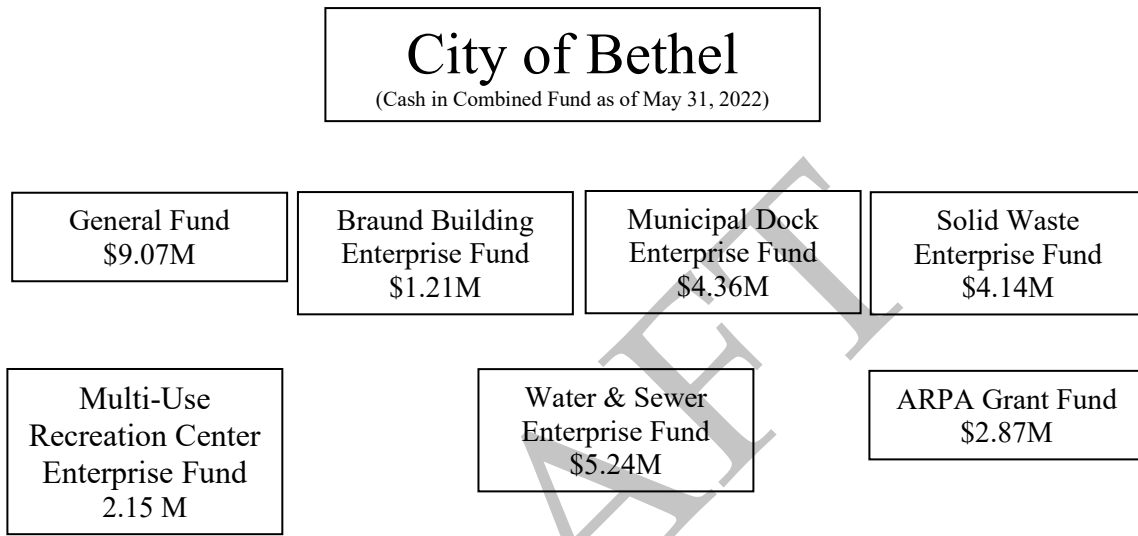
Caterpillar Hydraulic Excavator Documentation 103

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



DRAFT



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
---	------------------

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

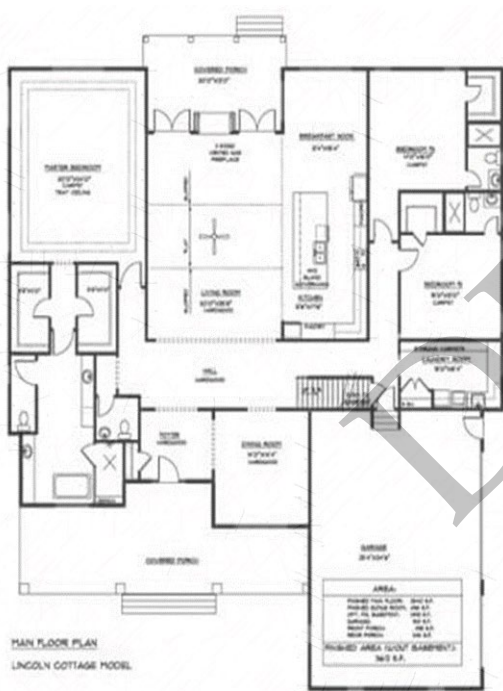
GL Code	Department	Year	Make	Model	Value
510-81	Hauled Water	2018	Mack	GU-713	\$245,000
510-81	Hauled Water	2019	Kenworth	T4 Series	\$266,232
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
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		\$1,575,000
100-70	Property Maintenance Department	Rehabilitating Public Parks	\$100,000
		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:		

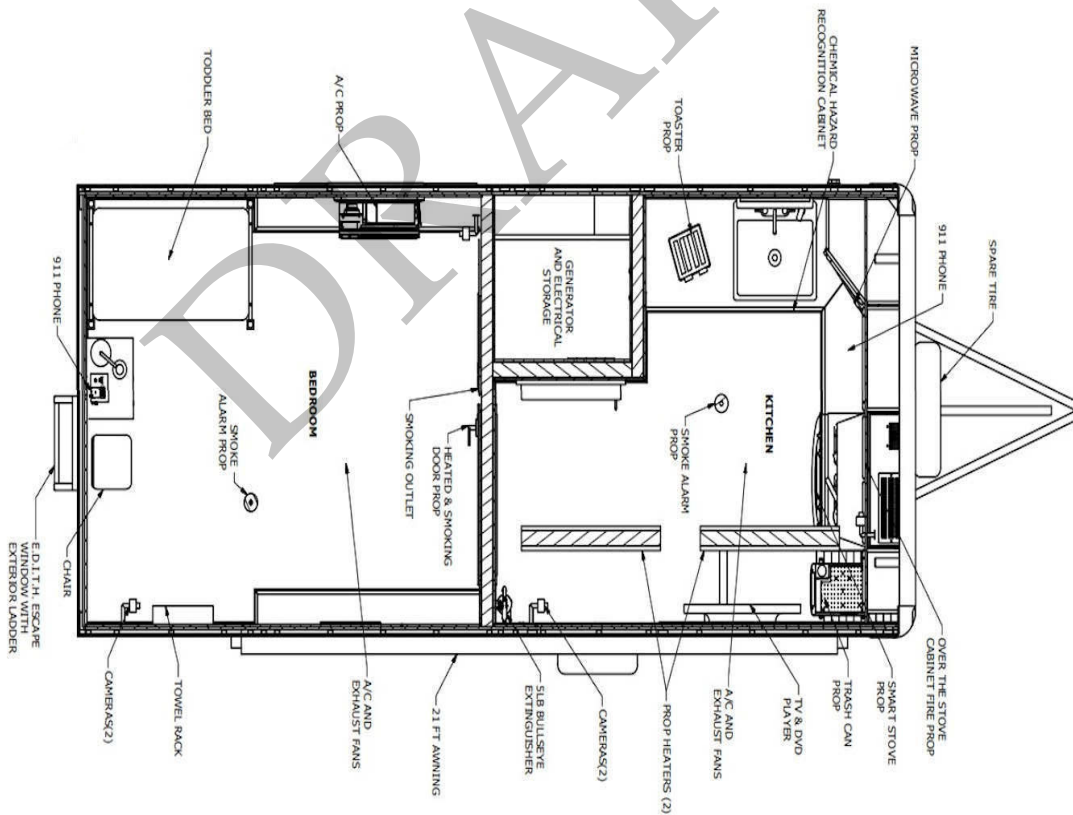


*This image is for illustrative purposes only

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:		

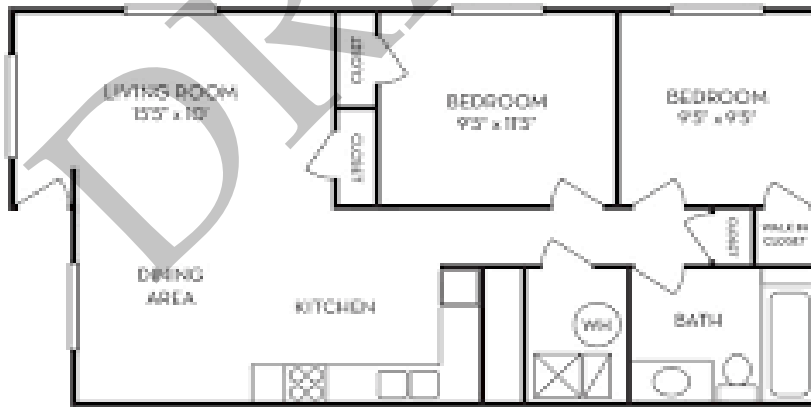


*This image is for illustrative purposes only

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 Negqerrrairia 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:		

**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

DRAFT

**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:		

**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

DRAFT

**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

DRAFT

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

DRAFT

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

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**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:		

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**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:		

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**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

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**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:		

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MUNICIPAL DOCK FUND SUPPLEMENTAL DOCUMENTATION

520-50 Municipal Dock

520-55 Small Boat Harbor

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**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

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**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:		

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

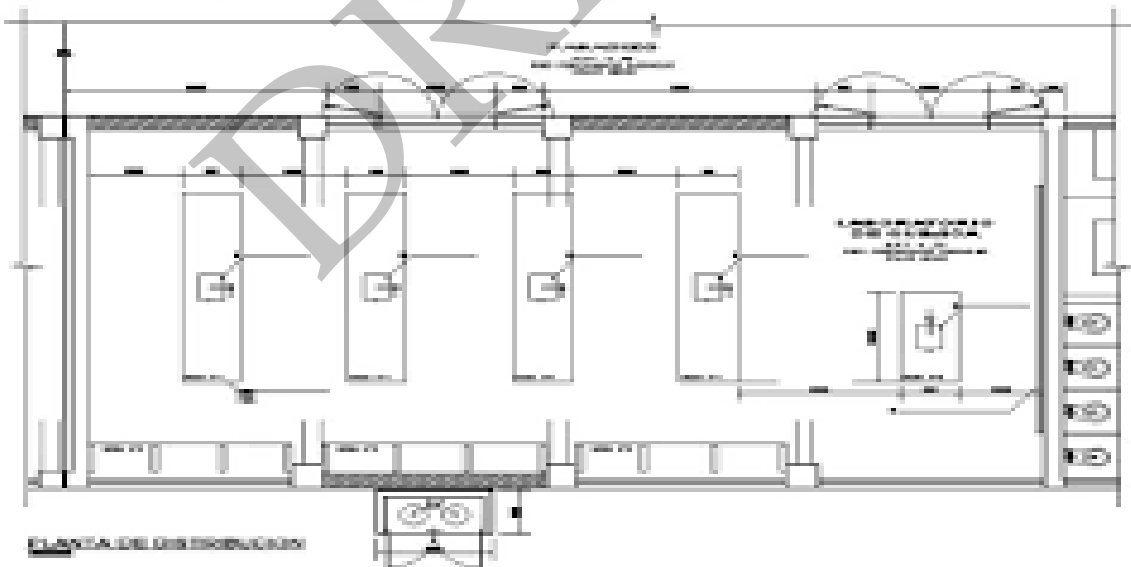
GL Code	Benefitting Department	Description	FY23 Proposed Budget
660-70	City-Sub Water Treatment Facility	Chemical Building	\$1,500,000
Total Capital Expenditures			\$1,500,000

DRAFT

AMERICAN RESCUE PLAN ACT CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (660)

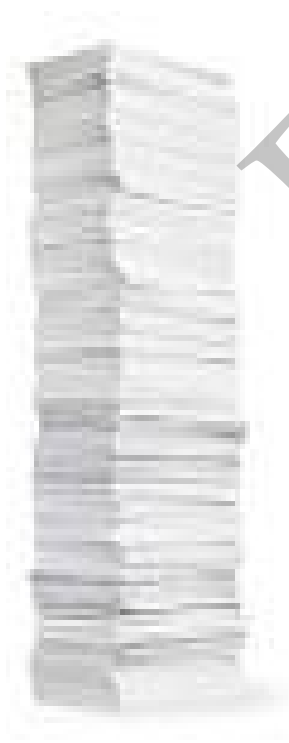
660 American Rescue Plan Act - Chemical Building \$1,500,000

		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

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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

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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, reading "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



Date: 05/05/22

YK Fitness Center - Additional Expansion Options

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
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ANCHORAGE
900 West 5th Ave. Suite 403
Anchorage, Alaska 99501
907.272.3567

WASILLA
191 East Swanson Ave. Suite 203
Wasilla, Alaska 99654
907.373.7503

BOZEMAN
104 East Main St. Suite 209
Bozeman, Montana 56715
406.404.1588

www.architectsalaska.com



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

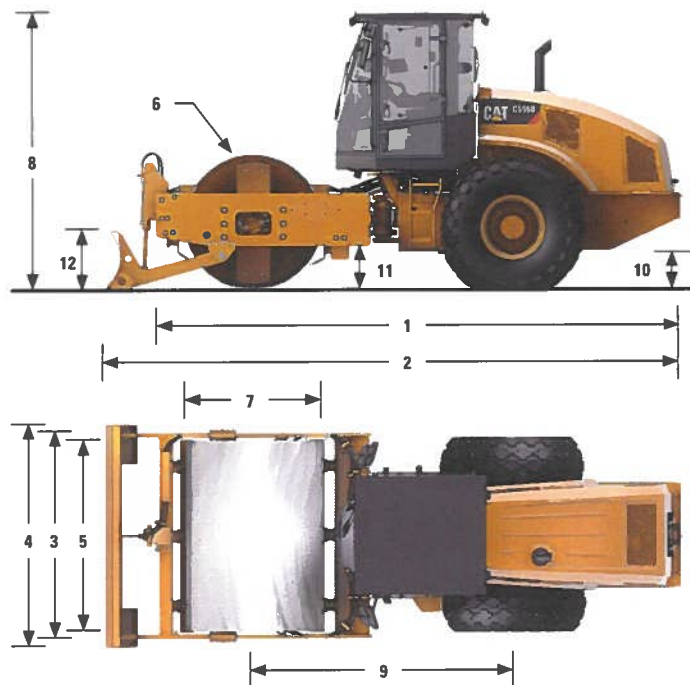
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @30.5 Hz (1830 vpm)		
High	2.1 mm	0.083 in
Low	0.98 mm	0.039 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	301 kN	67,600 lb
Minimum	141 kN	31,670 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-cranking 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

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

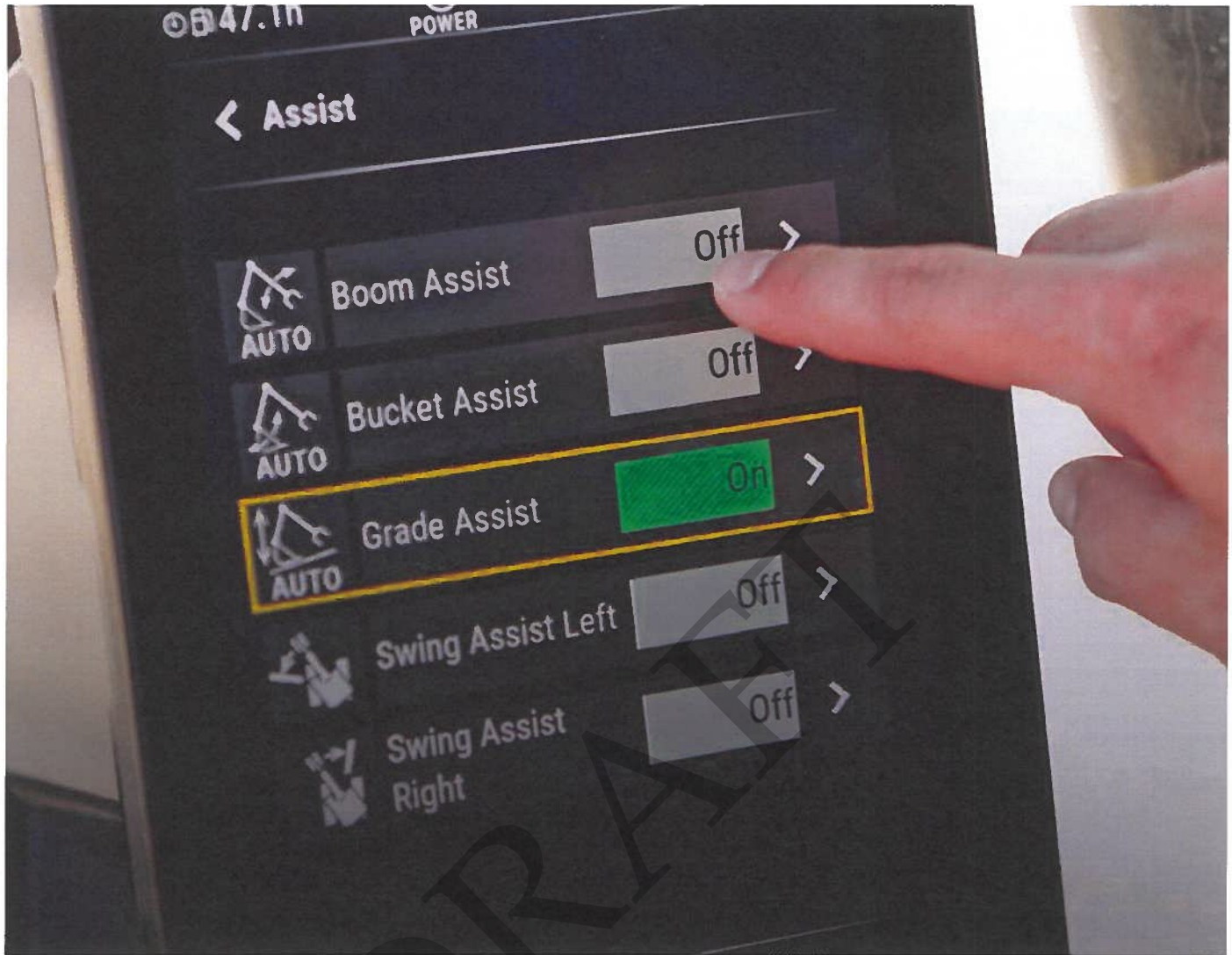


336

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

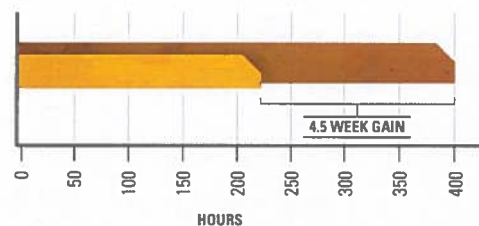
GETS JOBS DONE FASTER
WITH LESS REWORK

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.

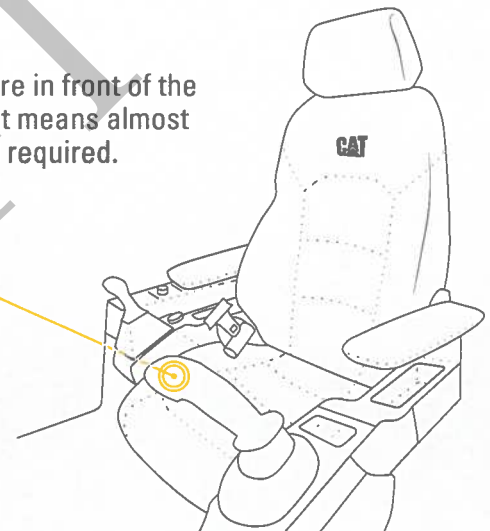


WE'VE GOT YOUR BACK.

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

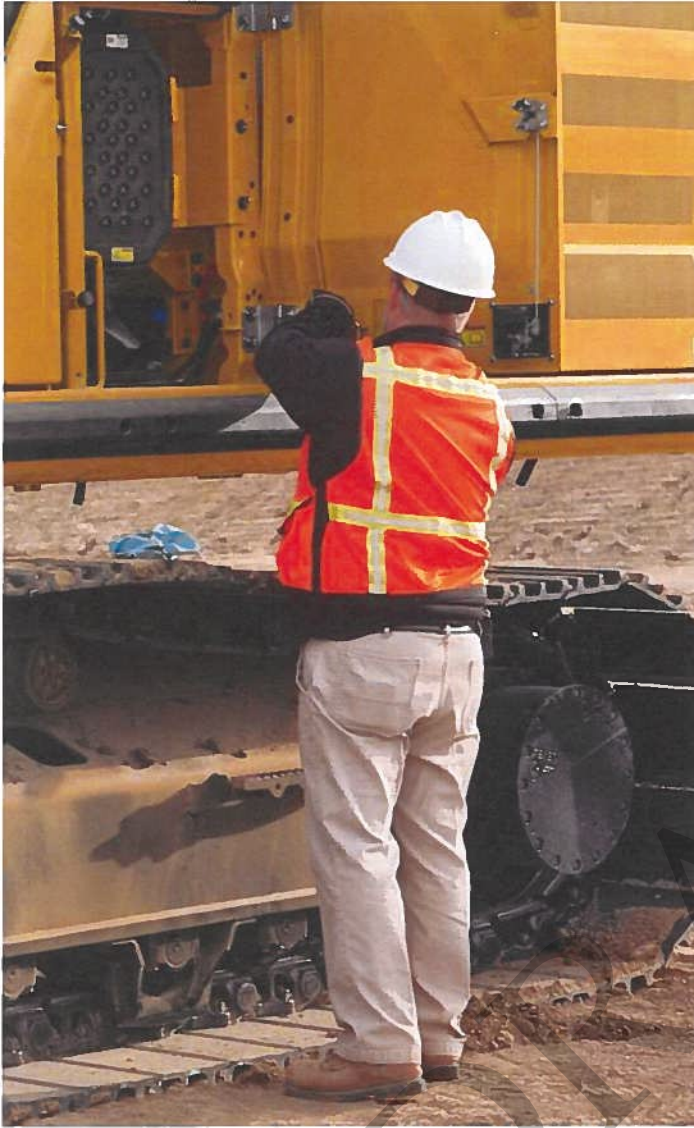
The ISO-certified ROPS cab is sound-suppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

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.

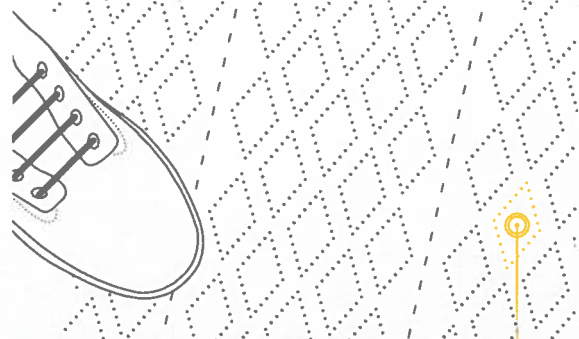
KEEP YOUR EXCAVATOR SECURE

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)



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.

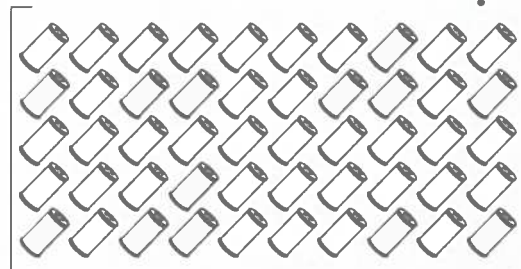
KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + 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	
	Ground Pressure		Ground Pressure		Ground Pressure		Ground Pressure	
	Weight kg (lb)	kPa (psi)	Weight kg (lb)	kPa (psi)	Weight kg (lb)	kPa (psi)	Weight 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

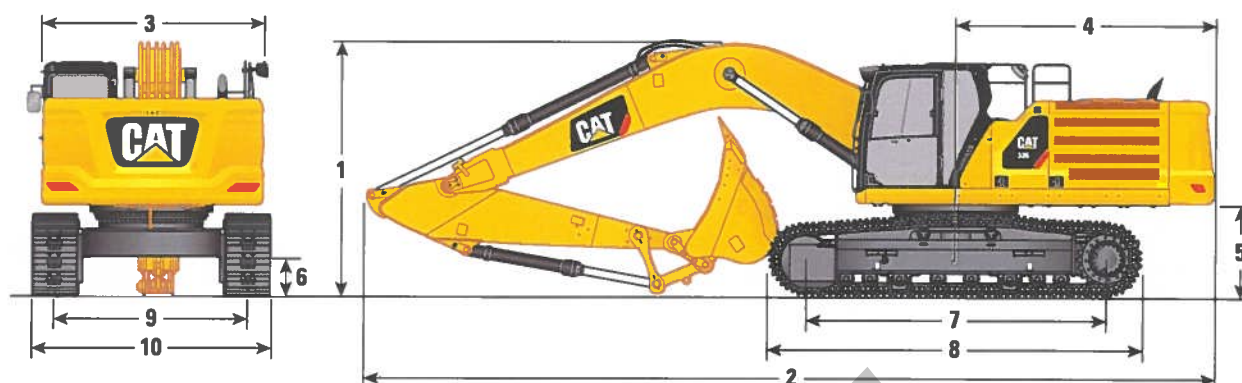
Major Component Weights

	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.

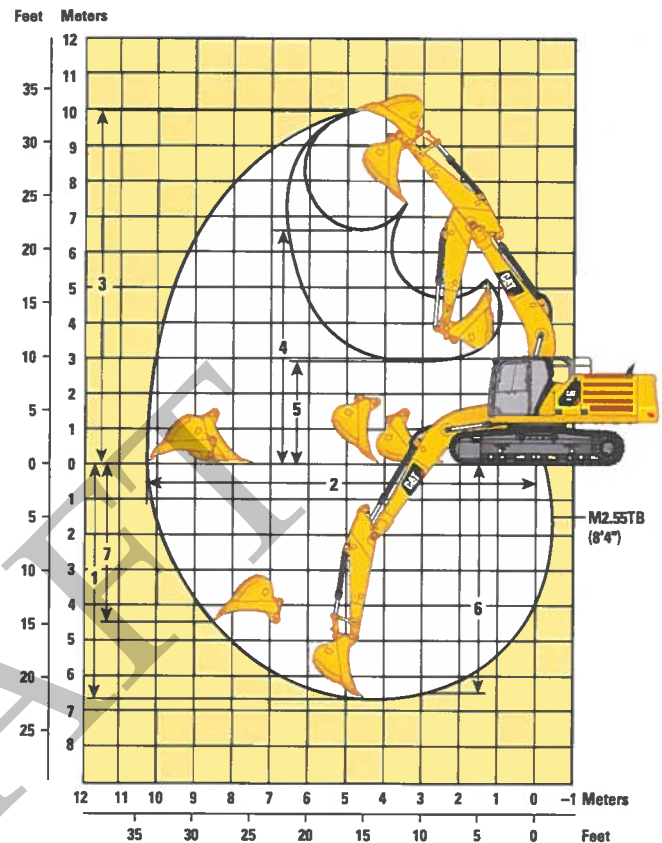
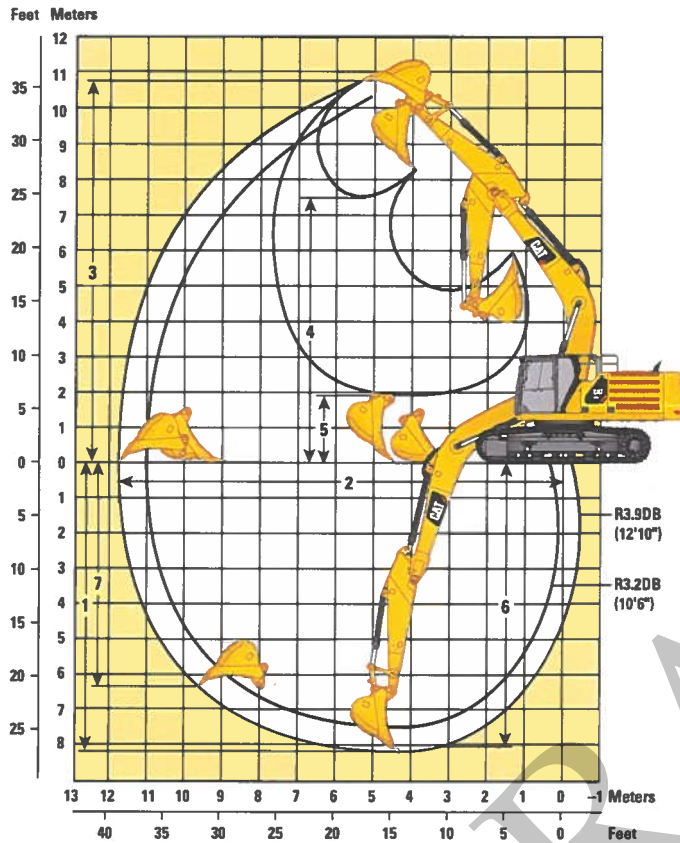


Boom Options			Reach Boom 6.5 m (21'4")		Mass Boom 6.18 m (20'3")			
Stick Options			Reach Stick		Mass Stick M2.55TB (8'4")			
			R3.9DB (12'10")				R3.2DB (10'6")	
1 Machine Height:								
Cab Height			3170 mm	10.4 ft	3170 mm	10.4 ft	3170 mm	10.4 ft
FOGS Height			3310 mm	10.9 ft	3310 mm	10.9 ft	3310 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

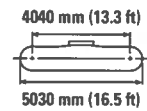
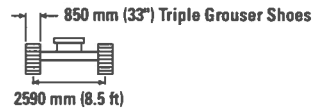
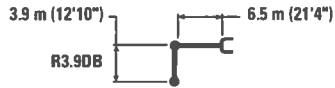
Reach Stick

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 *28,200	9450						*9300 *20,400	9300 *20,400	6.06 20.00



ISO 10567



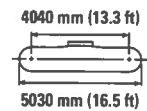
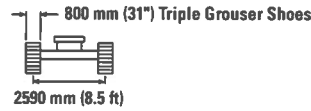
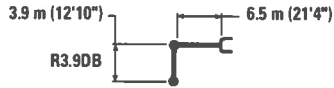
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 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	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	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	7.69 25.00
-6.0 m -20.0 ft	kg lb					*13 400 *28,200	*13 400 *28,200	*9500 9400						*9300 *20,400	6.06 20.00



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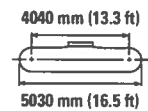
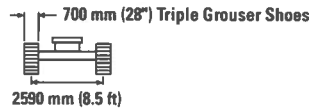
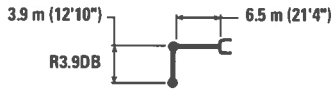
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Lift capacity stays with ±5% for all available track shoes.

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

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 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



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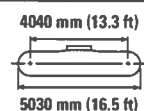
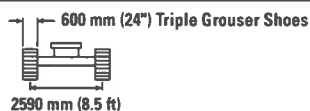
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Lift capacity stays with ±5% for all available track shoes.

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

336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 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



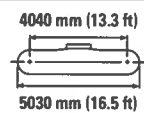
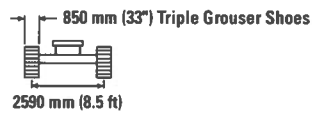
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

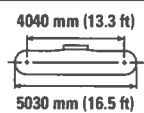
336 Hydraulic Excavator Specifications

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



	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



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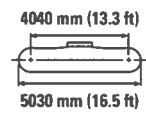
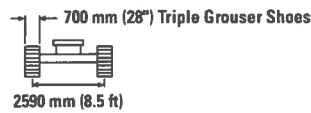
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

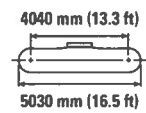
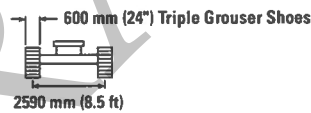
336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 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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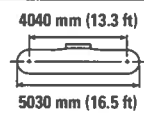
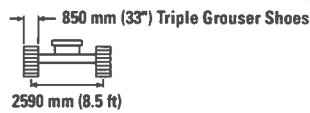
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

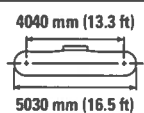
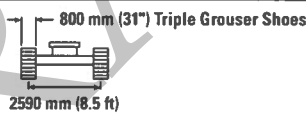
336 Hydraulic Excavator Specifications

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	*8550
20.0 ft	lb					*22,850	*22,850			*18,850	*18,850
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	*8550
20.0 ft	lb					*22,850	*22,850			*18,850	*18,850
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



ISO 10567



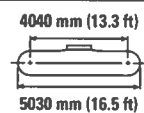
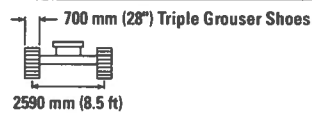
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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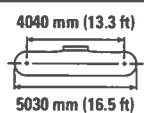
336 Hydraulic Excavator Specifications

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	8600 18,500	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	8750 18,850			*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	8500 18,350	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	8650 18,650			*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



ISO 10567



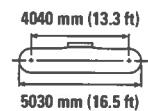
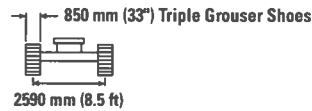
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Lift capacity stays with ±5% for all available track shoes.

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



		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	*11 650 *25,200	10 750 23,150	*9800 *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



ISO 10567



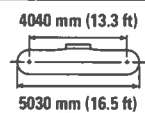
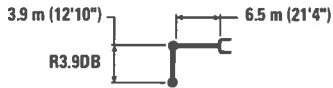
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Lift capacity stays with ±5% for all available track shoes.

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



		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	*9500 *9500					*9300 *20,400	*9300 *20,400	6.06 20.00



ISO 10567



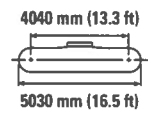
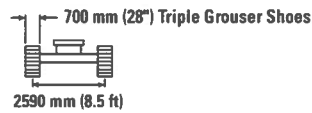
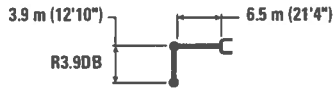
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Lift capacity stays with ±5% for all available track shoes.

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336 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 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



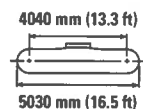
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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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	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	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	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	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	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	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	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	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



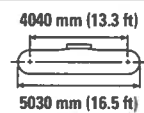
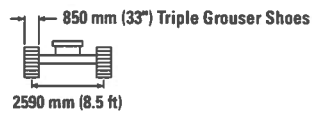
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Lift capacity stays with ±5% for all available track shoes.

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

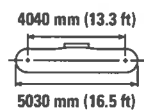
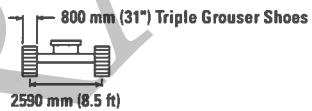
336 Hydraulic Excavator Specifications

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	kg							*8750	8250			*7400	*7400	7.70
25.0 ft	lb											*16,300	*16,300	25.00
6.0 m	kg							*8950	8200			*7200	6600	8.58
20.0 ft	lb							*19,550	17,600			*15,800	14,600	28.33
4.5 m	kg			*13 550	*13 550	*10 950	*10 950	*9600	8000	*8500	6000	*7250	5850	9.13
15.0 ft	lb					*23,650	*23,650	*20,900	17,150			*15,900	12,950	30.00
3.0 m	kg			*17 200	15 950	*12 650	10 600	*10 500	7700	9000	5900	*7500	5500	9.41
10.0 ft	lb			*37,000	34,450	*27,400	22,800	*22,800	16,600	19,300	12,650	*16,500	12,100	30.83
1.5 m	kg			*19 850	15 050	*14 200	10 100	*11 350	7450	8850	5750	*8050	5350	9.44
5.0 ft	lb			*42,800	32,450	*30,700	21,750	*24,600	16,000	19,000	12,350	*17,650	11,800	31.67
0 m	kg			*20 700	14 700	*15 100	9800	11 350	7250	8750	5650	8450	5500	9.22
0 ft	lb			*44,850	31,600	*32,650	21,100	24,400	15,600	18,800	12,200	18,600	12,050	30.83
-1.5 m	kg	*14 100	*14 100	*20 300	14 600	*15 200	9650	11 250	7150			9050	5850	8.75
-5.0 ft	lb	*31,850	*31,850	*44,050	31,400	*32,850	20,800	24,150	15,400			20,000	12,900	29.17
-3.0 m	kg	*22 200	*22 200	*18 850	14 700	*14 350	9700	*11 150	7200			*10 200	6650	7.96
-10.0 ft	lb	*50,250	*50,250	*40,800	31,650	*31,050	20,850	*23,850	15,500			*22,450	14,750	26.67
-4.5 m	kg	*21 250	*21 250	*16 000	15 000	*12 150	9900					*10 250	8500	6.75
-15.0 ft	lb	*45,750	*45,750	*34,400	32,300	*25,800	21,350					*22,550	18,950	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	kg							*8750	8250			*7400	*7400	7.70
25.0 ft	lb											*16,300	*16,300	25.00
6.0 m	kg							*8950	8150			*7200	6550	8.58
20.0 ft	lb							*19,550	17,550			*15,800	14,550	28.33
4.5 m	kg			*13 550	*13 550	*10 950	*10 950	*9600	7950	*8500	6000	*7250	5850	9.13
15.0 ft	lb					*23,650	*23,650	*20,900	17,100			*15,900	12,900	30.00
3.0 m	kg			*17 200	15 900	*12 650	10 550	*10 500	7650	8950	5850	*7500	5450	9.41
10.0 ft	lb			*37,000	34,300	*27,400	22,700	*22,800	16,500	19,200	12,600	*16,500	12,050	30.83
1.5 m	kg			*19 850	15 000	*14 200	10 050	*11 350	7400	8800	5700	*8050	5350	9.44
5.0 ft	lb			*42,800	32,300	*30,700	21,650	*24,600	15,950	18,900	12,300	*17,650	11,750	31.67
0 m	kg			*20 700	14 600	*15 100	9750	11 300	7200	8700	5650	8400	5450	9.22
0 ft	lb			*44,850	31,450	*32,650	21,000	24,250	15,500	18,700	12,100	18,500	12,000	30.83
-1.5 m	kg	*14 100	*14 100	*20 300	14 550	*15 200	9600	11 200	7100			9000	5800	8.75
-5.0 ft	lb	*31,850	*31,850	*44,050	31,250	*32,850	20,700	24,050	15,300			19,900	12,850	29.17
-3.0 m	kg	*22 200	*22 200	*18 850	14 650	*14 350	9650	*11 150	7150			*10 200	6650	7.96
-10.0 ft	lb	*50,250	*50,250	*40,800	31,500	*31,050	20,750	*23,850	15,400			*22,450	14,700	26.67
-4.5 m	kg	*21 250	*21 250	*16 000	14 950	*12 150	9850					*10 250	8450	6.75
-15.0 ft	lb	*45,750	*45,750	*34,400	32,150	*25,800	21,250					*22,550	18,900	22.50



ISO 10567



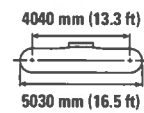
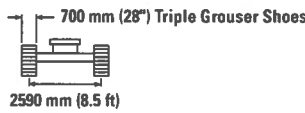
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

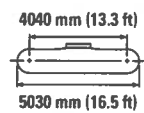
336 Hydraulic Excavator Specifications

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 $\pm 5\%$ 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

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

M2.55TB



850 mm (33") Triple Grouser Shoes



4040 mm (13.3 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 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 7750		*8550 *18,850	7600 16,950	7.60 25.00
4.5 m 15.0 ft	kg lb			*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	10 750 23,100	*10 200 *22,300	7600 16,350	*8550 *18,800	6550 14,550	8.21 27.50
3.0 m 10.0 ft	kg lb			*18 000 *38,650	15 350 33,150	*13 150 *28,450	10 200 21,950	*10 900 *23,650	7350 15,850	*8900 *19,500	6050 13,350	8.52 28.33
1.5 m 5.0 ft	kg lb			*20 000 *43,150	14 550 31,300	*14 350 *31,050	9700 20,950	11 250 24,200	7100 15,300	9250 20,400	5900 13,000	8.55 28.33
0 m 0 ft	kg lb			*20 200 *43,800	14 250 30,650	*14 900 *32,250	9450 20,350	11 050 23,850	6950 15,000	9550 21,050	6050 13,350	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	14 250 30,700	*14 500 *31,400	9350 20,200	11 050 23,800	6950 14,950	10 500 23,200	6650 14,600	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	14 500 31,150	*12 900 *27,650	9500 20,500			*10 600 *23,350	7950 17,650	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

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

M2.55TB



800 mm (31") Triple Grouser Shoes



4040 mm (13.3 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 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 7750		*8550 *18,850	7550 16,850	7.60 25.00
4.5 m 15.0 ft	kg lb			*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	10 700 23,000	*10 200 *22,300	7600 16,300	*8550 *18,800	6550 14,450	8.21 27.50
3.0 m 10.0 ft	kg lb			*18 000 *38,650	15 300 33,000	*13 150 *28,450	10 150 21,850	*10 900 *23,650	7300 15,750	*8900 *19,500	6050 13,300	8.52 28.33
1.5 m 5.0 ft	kg lb			*20 000 *43,150	14 450 31,150	*14 350 *31,050	9650 20,850	11 200 24,100	7100 15,250	9200 20,300	5850 12,900	8.55 28.33
0 m 0 ft	kg lb			*20 200 *43,800	14 200 30,500	*14 900 *32,250	9400 20,250	11 000 23,700	6900 14,900	9500 20,950	6050 13,250	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	14 200 30,550	*14 500 *31,400	9350 20,100	11 000 23,700	6900 14,900	10 450 23,100	6600 14,550	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	14 400 31,000	*12 900 *27,650	9450 20,400			*10 600 *23,350	7900 17,550	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



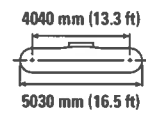
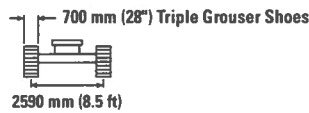
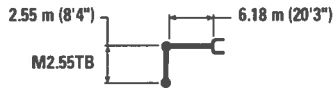
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

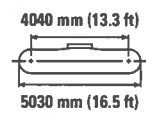
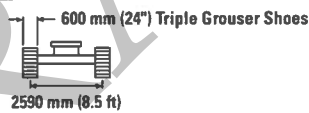
336 Hydraulic Excavator Specifications

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



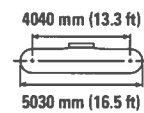
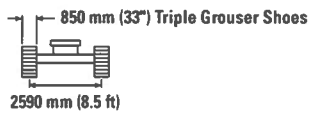
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Lift capacity stays with ±5% for all available track shoes.

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



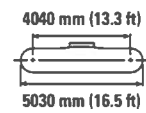
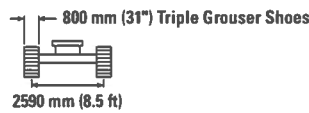
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Lift capacity stays with ±5% for all available track shoes.

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	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



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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

3.9 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



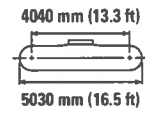
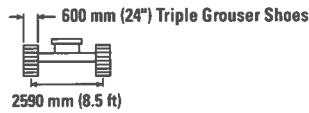
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Lift capacity stays with ±5% for all available track shoes.

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 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	5900 12,600		*5550 *12,200	5500 *12,200	9.34 30.83
4.5 m 15.0 ft	kg lb							*9650 *20,950	*9650 *20,950	*8650 *18,800	7750 16,700	*8050 *17,650	5800 12,400		*5550 *12,200	4950 10,950	9.84 32.50
3.0 m 10.0 ft	kg lb					*15 200 *32,600	*15 200 *32,600	*11 450 *24,800	10 350 22,300	*9600 *20,900	7450 16,000	*8550 18,550	5600 12,050		*5750 *12,600	4650 10,250	10.10 33.33
1.5 m 5.0 ft	kg lb					*18 300 *39,450	14 700 31,650	*13 200 *28,500	9750 21,000	*10 600 *22,950	7100 15,300	8450 18,150	5450 11,650		*6050 *13,350	4550 9,950	10.13 33.33
0 m 0 ft	kg lb			*8150 *18,600	*8150 *18,600	*19 950 *43,100	14 050 30,200	*14 350 *31,100	9300 20,050	10 850 23,300	6850 14,700	8300 17,800	5300 11,350		*6650 *14,600	4600 10,100	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	13 800 29,650	*14 850 *32,100	9100 19,550	10 650 22,950	6700 14,400	8200 17,650	5200 11,200		*7550 *16,650	4850 10,700	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	13 800 29,650	*14 450 *31,300	9050 19,450	10 650 22,850	6650 14,300				8550 18,900	5450 12,000	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	14 000 30,150	*13 050 *27,950	9150 19,750	*9750 *20,550	6800 14,700				*9350 *20,550	6600 14,700	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



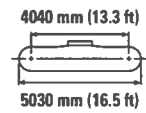
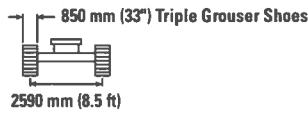
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

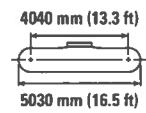
336 Hydraulic Excavator Specifications

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



	3.0 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						*8700	8200			*7350	*7350	7.70
	lb										*16,200	*16,200	25.00
6.0 m 20.0 ft	kg						*8800	8100			*7100	6500	8.58
	lb						*19,250	17,400			*15,650	14,400	28.33
4.5 m 15.0 ft	kg		*13 400	*13 400	*10 800	*10 800	*9450	7900	*8400	5900	*7150	5750	9.13
	lb				*23,350	*23,350	*20,550	16,950			*15,750	12,700	30.00
3.0 m 10.0 ft	kg		*17 000	15 800	*12 500	10 450	*10 350	7600	8900	5750	*7450	5400	9.41
	lb		*36,500	34,100	*27,000	22,550	*22,400	16,300	19,100	12,400	*16,350	11,850	30.83
1.5 m 5.0 ft	kg		*19 550	14 850	*14 000	9950	*11 150	7300	8750	5650	*8000	5250	9.44
	lb		*42,200	32,000	*30,200	21,450	*24,200	15,700	18,750	12,100	*17,550	11,550	31.67
0 m 0 ft	kg		*20 400	14 450	*14 850	9600	11 200	7100	8600	5500	8350	5350	9.22
	lb		*44,200	31,050	*32,150	20,700	24,100	15,250	18,550	11,900	18,350	11,750	30.83
-1.5 m -5.0 ft	kg	*14 000	*14 000	*20 000	14 350	*14 950	9450	11 100	7000		8950	5700	8.75
	lb	*31,700	*31,700	*43,350	30,850	*32,350	20,400	23,850	15,050		19,700	12,600	29.17
-3.0 m -10.0 ft	kg	*22 150	*22 150	*18 550	14 450	*14 100	9500	*10 950	7050		*10 000	6550	7.96
	lb	*50,100	*50,100	*40,150	31,100	*30,500	20,450	*23,450	15,150		*22,000	14,450	26.67
-4.5 m -15.0 ft	kg	*20 850	*20 850	*15 700	14 750	*11 900	9700				*10 050	8350	6.75
	lb	*44,950	*44,950	*33,750	31,800	*25,350	21,000				*22,100	18,650	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						*8700	8150			*7350	*7350	7.70
	lb										*16,200	*16,200	25.00
6.0 m 20.0 ft	kg						*8800	8100			*7100	6450	8.58
	lb						*19,250	17,350			*15,650	14,300	28.33
4.5 m 15.0 ft	kg		*13 400	*13 400	*10 800	*10 800	*9450	7850	*8400	5850	*7150	5750	9.13
	lb				*23,350	*23,350	*20,550	16,900			*15,750	12,650	30.00
3.0 m 10.0 ft	kg		*17 000	15 750	*12 500	10 400	*10 350	7550	8850	5750	*7450	5350	9.41
	lb		*36,500	33,950	*27,000	22,450	*22,400	16,250	19,000	12,350	*16,350	11,800	30.83
1.5 m 5.0 ft	kg		*19 550	14 750	*14 000	9900	*11 150	7250	8700	5600	*8000	5200	9.44
	lb		*42,200	31,850	*30,200	21,350	*24,200	15,650	18,650	12,050	*17,550	11,500	31.67
0 m 0 ft	kg		*20 400	14 350	*14 850	9550	11 150	7050	8550	5500	8300	5300	9.22
	lb		*44,200	30,900	*32,150	20,600	24,000	15,200	18,450	11,850	18,250	11,700	30.83
-1.5 m -5.0 ft	kg	*14 000	*14 000	*20 000	14 250	*14 950	9400	11 050	6950		8900	5700	8.75
	lb	*31,700	*31,700	*43,350	30,700	*32,350	20,300	23,750	15,000		19,600	12,550	29.17
-3.0 m -10.0 ft	kg	*22 150	*22 150	*18 550	14 400	*14 100	9450	*10 950	7000		*10 000	6500	7.96
	lb	*50,100	*50,100	*40,150	30,950	*30,500	20,350	*23,450	15,100		*22,000	14,400	26.67
-4.5 m -15.0 ft	kg	*20 850	*20 850	*15 700	14 700	*11 900	9650				*10 050	8300	6.75
	lb	*44,950	*44,950	*33,750	31,650	*25,350	20,900				*22,100	18,550	22.50



ISO 10567



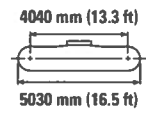
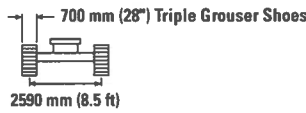
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

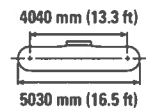
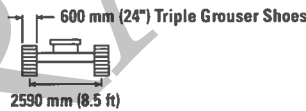
336 Hydraulic Excavator Specifications

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 19,250	8050 17,100			*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 15,550	6350 14,100	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400 29,950	*13 400 29,950	*10 800 23,350	*10 800 23,350	*9450 20,550	7750 16,650	*8400 18,700	5800 12,150	*7150 15,750	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	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	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	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	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	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	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 19,250	7950 17,000			*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 15,550	6300 14,000	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400 29,950	*13 400 29,950	*10 800 23,350	10 750 23,200	*9450 20,550	7650 16,500	*8400 18,500	5750 12,050	*7150 15,750	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	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	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	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	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			9550 22,000	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	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					
									Reach		Mass	HD Reach		Reach		Mass	
		mm	in	m³	yd³	kg	lb	%	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")	
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	1700	68	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	2,785	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		Mass
										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	⊖	○		⊖	○	⊖	○		
Heavy Duty Pin Grabber Performance	DB	1500	60	1.86	2.43	1642	3,620	100	○	◇		⊖	◇	⊖	○		
	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.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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



Page 157



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

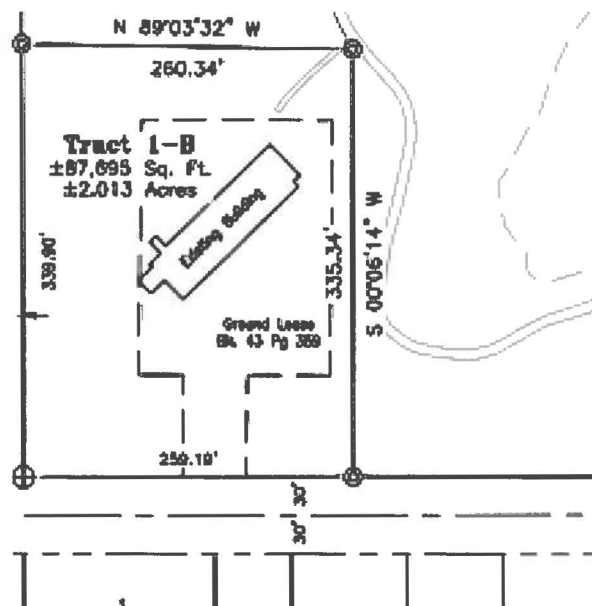
Introduced by: Council Member Springer
Introduction Date: September 28, 2021
Public Hearing Date: April 12, 2022
June 14, 2022
Action: Passed
Vote: 6-0

CITY OF BETHEL, ALASKA

Ordinance #21-45

AN ORDINANCE BY THE BETHEL CITY COUNCIL AUTHORIZING THE DISPOSAL OF PROPERTY THROUGH TRANSFER PURSUANT TO BMC 4.08.030 (f) DISPOSAL TO NATIVE TRIBAL COUNCIL UNDER FEE SIMPLE OWNERSHIP

WHEREAS, the City of Bethel owns a parcel of land situated in Tract A of Block 9, USS 3770 Northwest Addition, Bethel Townsite, 334 Akiachak Avenue, Bethel containing ~~87,695~~ 88,095 square feet, located in the Public Lands and Institutions District;



WHEREAS, the City of Bethel entered into a ground lease with Ortusararmiut Traditional Native Council (ONC) in 1985, which expired on November 30, 2020;

WHEREAS, the City wishes to dispose of the property through transfer, in accordance with BMC 4.08.030(F), Disposal to Native Tribal Council, under fee simple ownership as outlined in this Ordinance;

WHEREAS, located on site is a one-story wood frame building containing 4,953 square feet of fully finished building area owned by ONC;

Introduced by: Council Member Springer
Introduction Date: September 28, 2021
Public Hearing Date: April 12, 2022
June 14, 2022
Action: Passed
Vote: 6-0

WHEREAS, the fair market value of the land as of ~~December 1, 2020~~ was approximately ~~\$44.42~~ January 12, 2022 is \$190,000, just under \$2.16 per square foot excluding building improvements;

WHEREAS, the City wishes to transfer the above-described land to ONC under fee simple ownership exempting the transfer from the stated waived immunity from suit for the purpose of enforcing any conditions attached to the disposal of the City's interest and without compensation to the City;

WHEREAS, the City Council appreciates and respects our partnership with ONC and recognizes organizational collaboration between the entities is essential to the viability of our hosted public programs;

NOW, THEREFORE BE IT ENACTED BY THE CITY COUNCIL OF THE CITY OF BETHEL, ALASKA, the City Council authorizes the disposal of property, as described under Section 2 of this Ordinance.

SECTION 1. Classification. This is a non-codified Ordinance and shall not become part of the Bethel Municipal Code.

SECTION 2. Terms of Disposal

Legal Description. The property that is the subject of the disposal is described as: a parcel of land situated in Tract A of Block 9, USS 3770 Northwest Addition, Bethel Townsite, 334 Akiachak Avenue.

Description of the City's Interest Being Disposed of: A parcel of property containing ~~87,695~~ 88,095 square feet of level to sloping land with about two-third filled with sand. Electricity, telephone, water, and sewer lines serve the site. The land is located within the Public Lands and Institutions District.

Method of Disposal: Gift deed transfer under fee simple ownership without reverter.

Value of the City's Interest: The appraised value of the property as of ~~December 1, 2020~~ was approximately ~~\$3,895,411~~ January 12, 2022 is \$190,000.

SECTION 3. Authority and Immunity Waiver. Pursuant to Bethel Municipal Code 4.08.030(F), Disposal to Native Tribal Council, the disposal made by the City to ONC shall include a requirement that ONC waive any immunity from suit for the purpose of

City of Bethel, Alaska

Ordinance #21-45
2 of 3

Introduced by: Council Member Springer
Introduction Date: September 28, 2021
Public Hearing Date: April 12, 2022
June 14, 2022
Action: Passed
Vote: 6-0

enforcing any conditions attached to the disposal of the City's interest in the above-described real property to ONC.

SECTION 4. Effective date. This ordinance shall become effective immediately upon enactment by the City Council.

**BE IT ENACTED BY THE CITY COUNCIL OF THE CITY OF BETHEL, ALASKA
THIS 14th DAY OF JUNE 2021 BY A VOTE OF 6 IN FAVOR AND 0 OPPOSED.**


Mark Springer, Mayor

ATTEST: 
Kevin Morgan, Deputy City Clerk

Yukon Kuskokwim Regional Health and Aquatic Safety Training Center (400-50)		FY19 Actuals	FY20 Actuals	FY21 Budget	FY21 Actuals	FY22 Budget	January FY22 Actuals	FY23 Budget
REVENUES:								
43-4360	Pro Shop Revenue	41,667	34,516	44,982	16,683	40,000	16,230	40,000
43-4361	Concession Revenue	68,100	54,492	70,092	17,773	60,000	12,375	60,000
43-4362	Entry Fee	105,901	129,351	100,000	42,005	100,000	40,951	100,000
43-4369	Program Fees	56,034	32,955	85,817	4,268	50,000	6,376	50,000
43-4440	Facility Rental	49,874	27,934	44,600	4,986	25,500	10,959	25,500
439420	Memberships	-	-	350,000	83,107	260,000	137,354	260,000
Total Operating Revenues		321,576	279,248	695,491	168,822	535,500	224,245	535,500
Grant Revenues								
42-9411	SFY13 Designated Legislative Grant							
42-4570	Delta Women's Group Grant	3,901	405					
42-4571	Community Action Grant	(344)	405					
42-416	Grant Revenue				102,999	100,000	100,000	5,000
Total Grant Revenues		3,557	810	-	102,999	100,000	100,000	5,000
Transfer In/Miscellaneous								
46-4300	Cash Xfer from GF: 8.33%* Retail Sales Taxes	532,507	471,064	500,000	589,163	625,000	360,964	649,740
46-4330	Cash Xfer from GF: 3.33%*Alcohol Sales Taxes	15,037	20,856	20,000	12,820	16,666	7,517	16,650
46-4530	Penalties & Interest	-	-	-		6,250	-	-
46-9415	Cash Xfer from GF: 8.33%*ARSST	-	-	-		41,667	28,778	49,980
46-9417	Xfer from GF: 3.33%* Marijuana Sales Tax	295,543	239,181	40,000		28,333	16,442	28,305
49-4590	Investment Income	83,932	59,274	41,000		41,000	199	2,000
Total Non-Operating Revenue		927,019	790,375	601,000	601,983	758,916	413,900	746,675
Total Revenues		1,252,152	1,070,433	1,296,491	873,804	1,394,416	738,145	1,287,175
EXPENSES:								
MATERIALS, SUPPLIES, & SERVICES:								
6150	Gasoline/Diesel/Oil	1,459	1,385	2,472	2,556	2,472	5,992	
6153	Heating Fuel	161,531	198,272	204,000	166,373	133,710	145,140	226,811
6155	Water/Sewer/Garbage	51,638	198,272	56,650	104,059	56,650	31,700	109,262
6160	Electricity	113,542	96,039	120,510	77,830	120,510	60,947	91,421
6170	Telephone	1,228	1,202	773	1,326	773	990	
6200	Minor Equipment	845	-	-	60	-	843	
6230	Vehicle Maint/Repairs	17	232	-	111	1,000	186	97
6240	Prop Maint (ICR)	37,359	54,521	50,000	44,480	50,000	36,099	50,000
6241	Property Maintenance (ICR) (5%)	-	-	43,000	-	43,000	-	55,407
6320	Other Professional Fees (HealthFit @ \$12,748.12)	144,200	148,526	148,320	148,526	152,981	152,981	157,570
6326	Contractor Fees	749,495	608,112	700,700	406,847	905,769	74,440	808,100
6335	Other Purchased Services	5,760	43,244	25,160	7,206	10,000	2,498	10,000
6400	Insurance	39,105	62,226	39,975	61,811	48,733	37,544	40,939
6710	Admin Overhead General Fund	23,653	24,345	30,000	35,993	30,000	22,695	21,819
6711	Admin Overhead-IT SVCS	38,240	45,513	43,439	40,276	43,439	34,959	33,260
Total Operating Expenses		1,368,073	1,481,887	1,464,999	1,097,455	1,599,037	607,014	1,604,686
Net Operating Profit/(Deficit)		(115,921)	(411,453)	(168,508)	(223,651)	(204,621)	131,131	(317,511)

Yukon Kuskokwim Regional Health and Aquatic Safety Training Center Expense Worksheet

		FY20	FY21	FY22	FY23
Personnel:					
	Wages & Benefits	\$811,739	\$818,398	\$696,442	\$625,000
	Housing	\$37,080	\$43,822	\$42,900	\$42,550
	Total Personnel	\$848,819	\$862,220	\$739,342	\$667,550
545	Travel & Training:				
	1st Aid/CPR	\$1,500	\$1,500	\$1,000	\$500
	Staff Inservice Training	\$1,500	\$1,500	\$1,000	\$500
	Total Travel & Training	\$3,000	\$3,000	\$2,000	\$1,000
561	Supplies:				
	Office Supplies	\$3,000	\$3,000	\$1,500	\$1,000
	Pool Maintenance	\$10,000	\$10,000	\$6,000	\$6,000
	Chemicals	\$26,000	\$26,000	\$22,000	\$22,000
	Fitness Items	\$2,000	\$2,000	\$2,000	\$2,000
	Aquatic Program	\$2,575	\$2,575	\$2,000	\$2,000
	Concession Inventory	\$35,530	\$36,596	\$32,000	\$25,000
	Pro-Shop Inventory	\$21,500	\$21,500	\$21,500	\$18,000
	Total Supplies	\$100,605	\$101,671	\$87,000	\$76,000
	Building Maintenance:				
580	Boiler	\$6,000	\$6,000	\$3,000	\$1,500
661	Vehicle Maintenance	\$250	\$250	\$100	\$100
663	Janitorial Supplies	\$20,400	\$20,400	\$20,000	\$15,000
799	Maintenance Reserve	\$7,500	\$9,000	\$7,000	\$6,000
	Total Building Maintenance	\$34,150	\$35,650	\$30,100	\$22,600
668	IT/Software:				
	Point of Sale System	\$7,060	\$7,646	\$7,646	\$6,000
	Employee Scheduling	\$500	\$500	\$500	\$500
	Total IT/Software	\$7,560	\$8,146	\$8,146	\$6,500
	General Expenses:				
563	Wearing Apparel	\$0	\$2,731	\$2,731	\$2,000
580	Minor Equipment	\$21,000	\$21,000	\$10,000	\$10,000
661	Donations/ Awards	\$500	\$500	\$250	\$250
724	Dues/Subscriptions	\$2,000	\$2,100	\$2,000	\$1,000
727	Advertising	\$8,000	\$8,000	\$6,000	\$3,000
733	Postage	\$200	\$200	\$100	\$100
736	Bank Fees	\$14,645	\$15,377	\$14,500	\$14,500
	Total General Expenses:	\$46,345	\$49,908	\$35,581	\$30,850
790	Special Events:				
	Member Incentives	\$400	\$400	\$550	\$550
	Community Events	\$400	\$450	\$550	\$550
	Total Special Events	\$800	\$850	\$1,100	\$1,100
799	Misc. Expenses:				
	Unforeseen Expenses	\$2,625	\$3,150	\$2,500	\$2,500
	Total Misc. Expenses	\$2,625	\$3,150	\$2,500	\$2,500
646	Total Contractor Pass-Thru Exp.:				
	Total Personnel Expenses	\$848,819	\$862,220	\$739,342	\$667,550
	Total Operational Expenses	\$195,085	\$202,375	\$166,427	\$140,550
	Total Contractor Pass-Thru	\$1,043,904	\$1,064,595	\$905,769	\$808,100
649	Contractor: Healthfit costing 12,748.42 per month				
		\$148,320	\$148,320	\$152,981	\$157,570
	Total Expenses	\$1,192,224	\$1,212,915	\$1,058,750	\$965,670



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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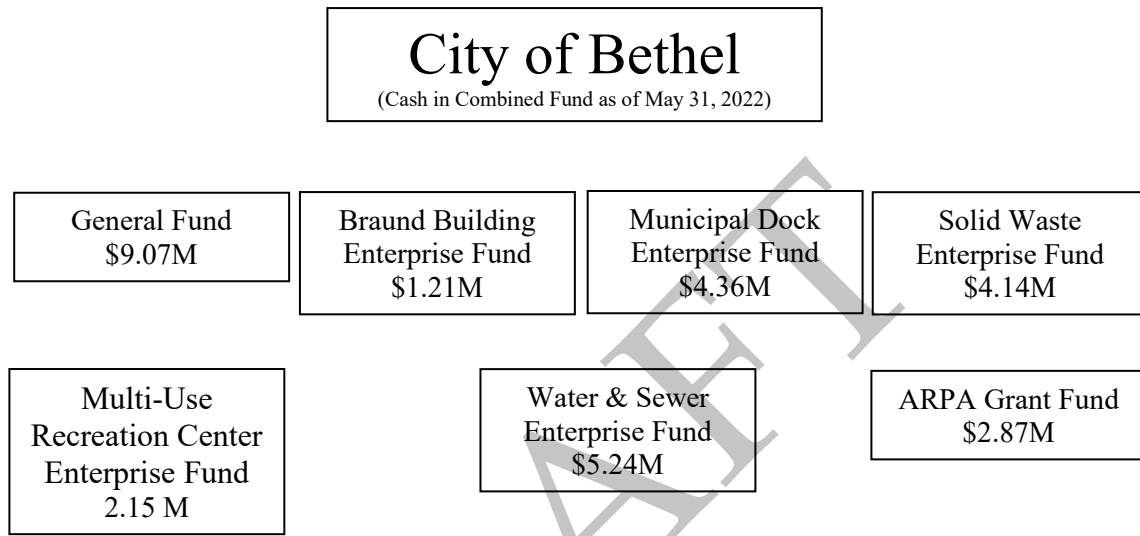
Caterpillar Hydraulic Excavator Documentation 103

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

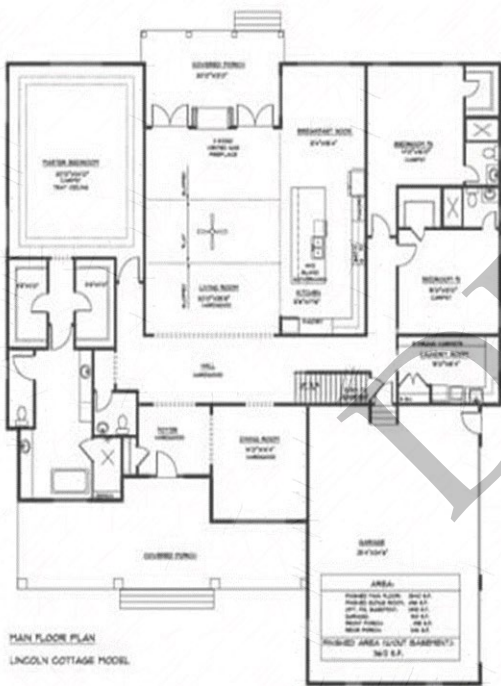
GL Code	Department	Year	Make	Model	Value
510-81	Hauled Water	2018	Mack	GU-713	\$245,000
510-81	Hauled Water	2019	Kenworth	T4 Series	\$266,232
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
510-81	Hauled Water	2020	Kenworth	T4 Series	\$258,986
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		\$1,575,000
100-70	Property Maintenance Department	Rehabilitating Public Parks	\$100,000
		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:		

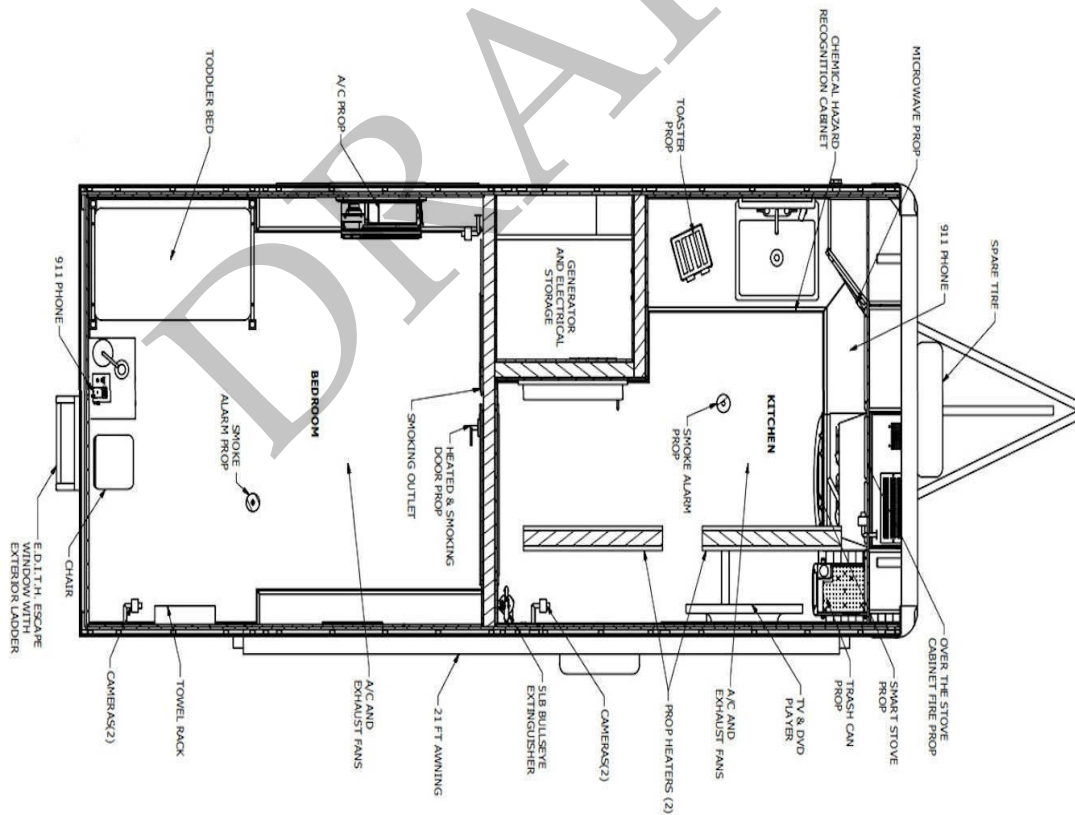


*This image is for illustrative purposes only

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:		

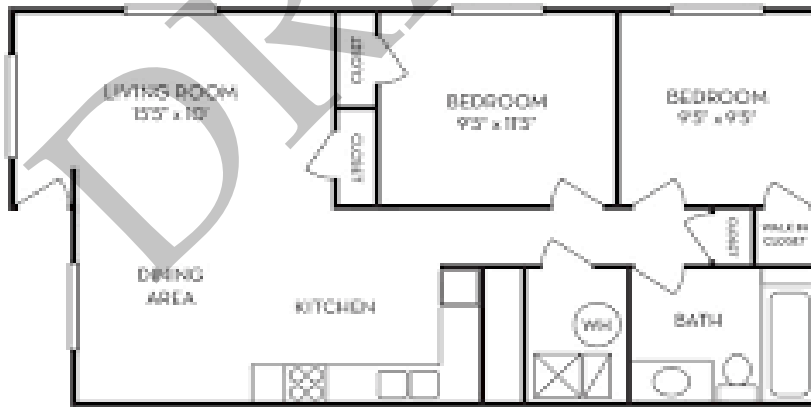


*This image is for illustrative purposes only

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 Negqerrrairia 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 Negqerrrairia 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

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**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)**

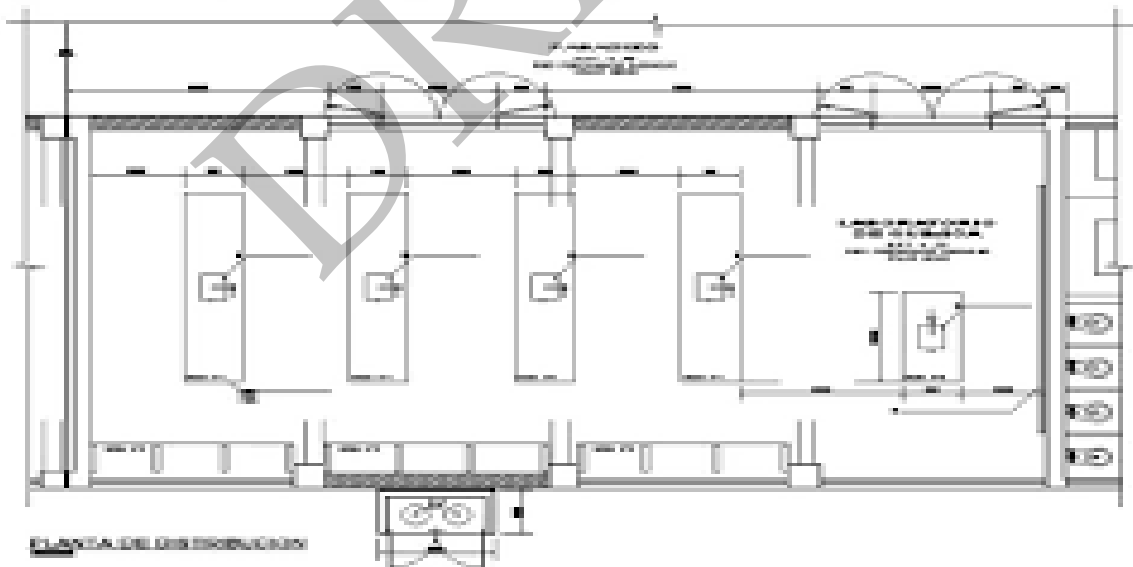
GL Code	Benefitting Department	Description	FY23 Proposed Budget
660-70	City-Sub Water Treatment Facility	Chemical Building	\$1,500,000
Total Capital Expenditures			\$1,500,000

DRAFT

AMERICAN RESCUE PLAN ACT CAPITAL EXPENDITURES SUPPLEMENTAL DOCUMENTATION (660)

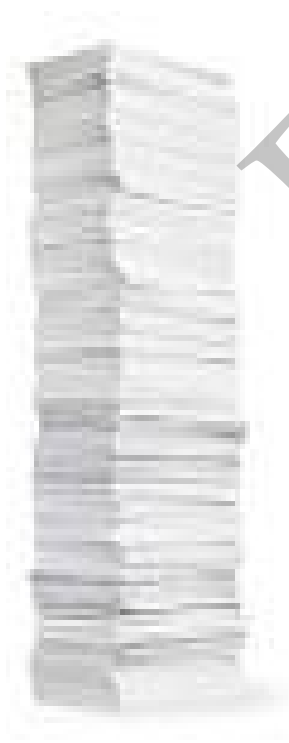
660 American Rescue Plan Act - Chemical Building \$1,500,000

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

All engineering will be performed by or subcontracted to DOWL

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**

7. *Section Manager*

SUBTOTAL -Consultant Expanded Gym Option Fees, including Mark-up		\$	-
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SUBTOTAL - Expanded Gym Option	\$	6,770.00
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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	26	\$4,296
Revised Scope Concept							
Estimate - 1 Option with 3 Alternates.							

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

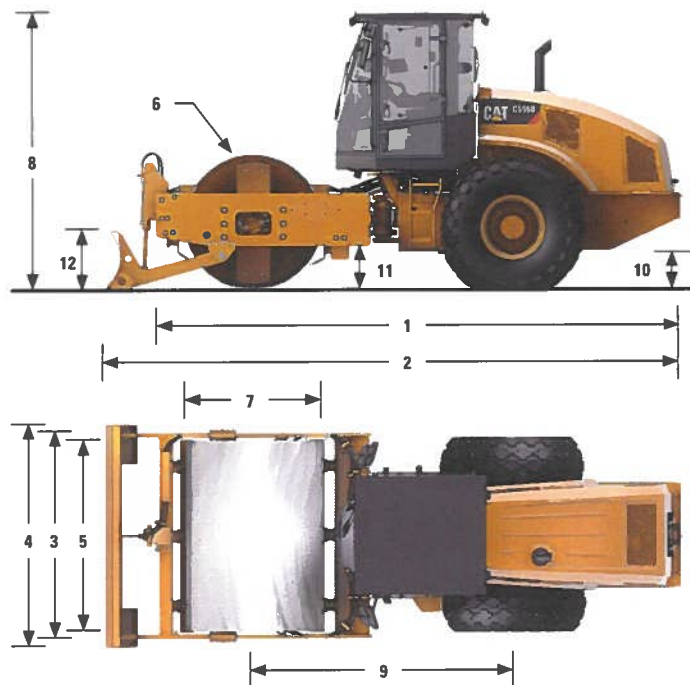
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @30.5 Hz (1830 vpm)		
High	2.1 mm	0.083 in
Low	0.98 mm	0.039 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	301 kN	67,600 lb
Minimum	141 kN	31,670 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-cranking 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

QEHQ1558-03 (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

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

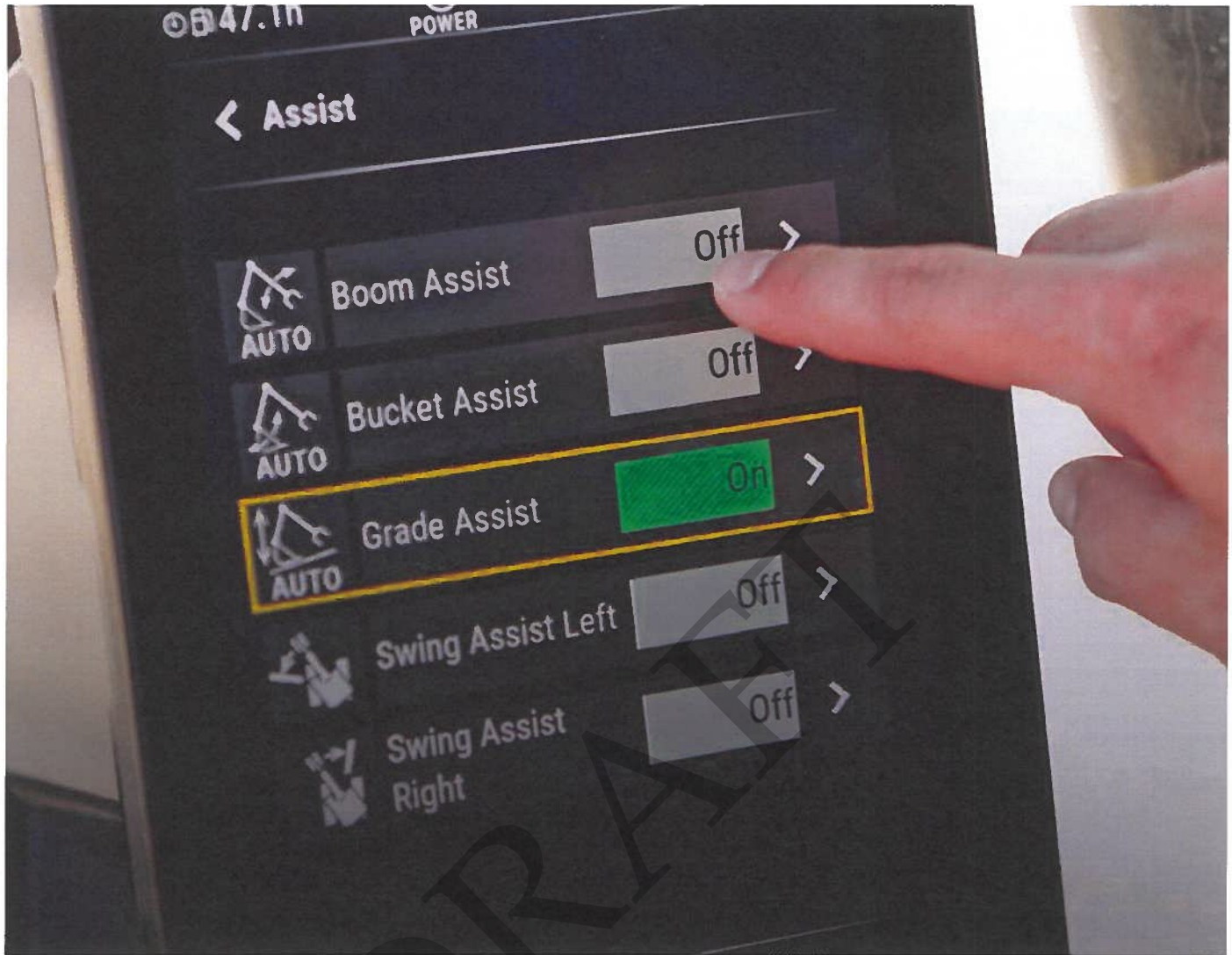


336

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

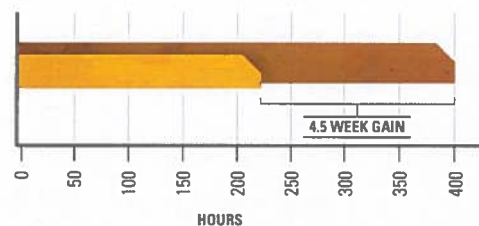
GETS JOBS DONE FASTER
WITH LESS REWORK

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.

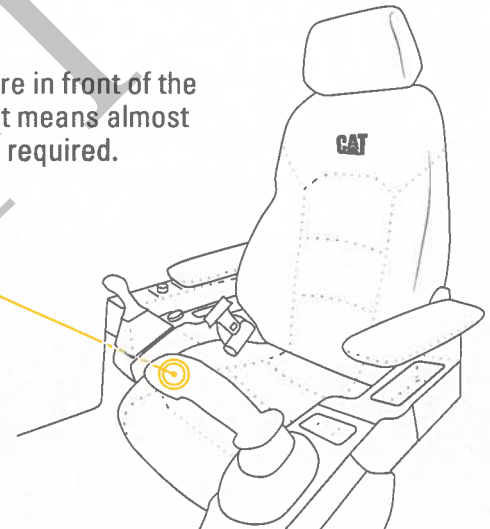


WE'VE GOT YOUR BACK.

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

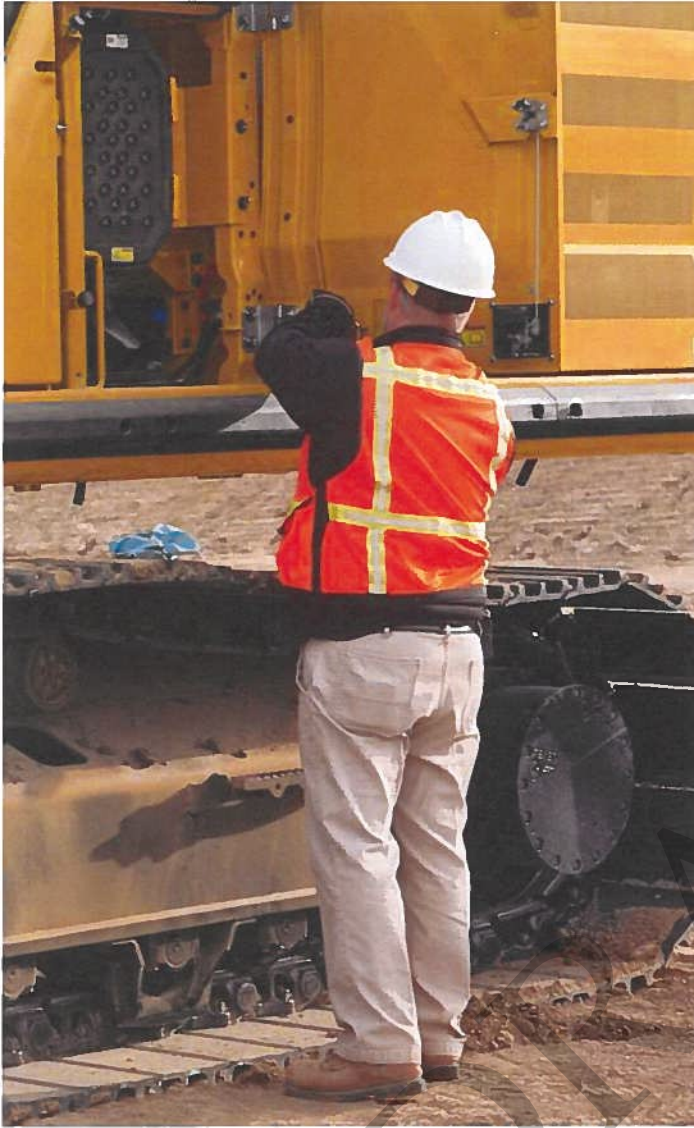
The ISO-certified ROPS cab is sound-suppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

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.

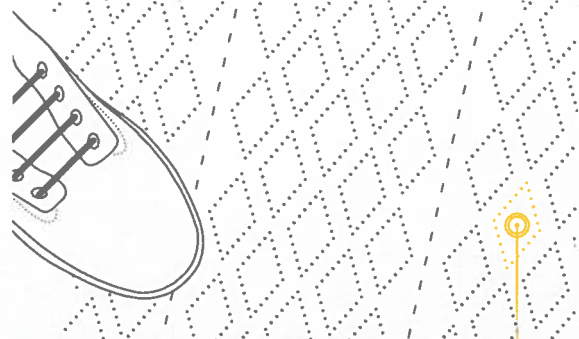
KEEP YOUR EXCAVATOR SECURE

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.

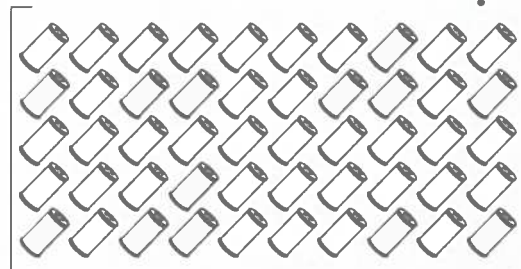
KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + 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	
	Ground Pressure		Ground Pressure		Ground Pressure		Ground Pressure	
	Weight kg (lb)	kPa (psi)	Weight kg (lb)	kPa (psi)	Weight kg (lb)	kPa (psi)	Weight 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

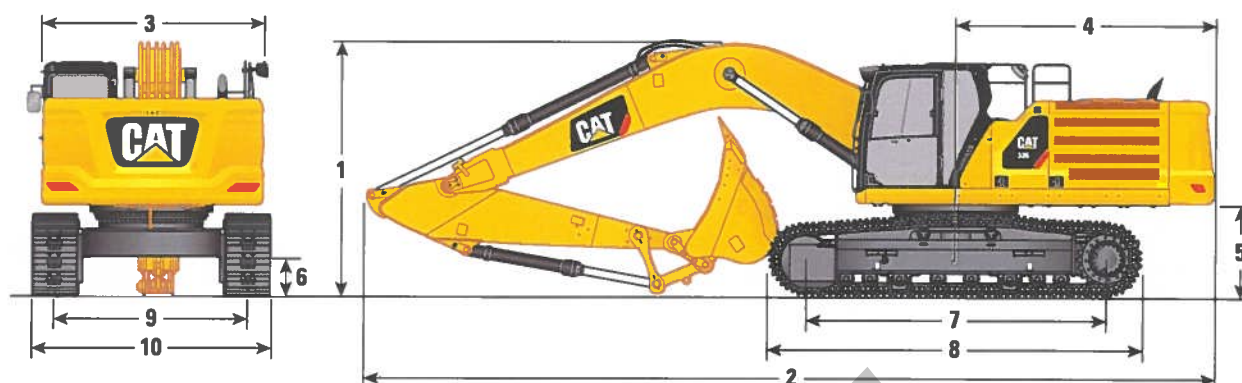
Major Component Weights

	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.

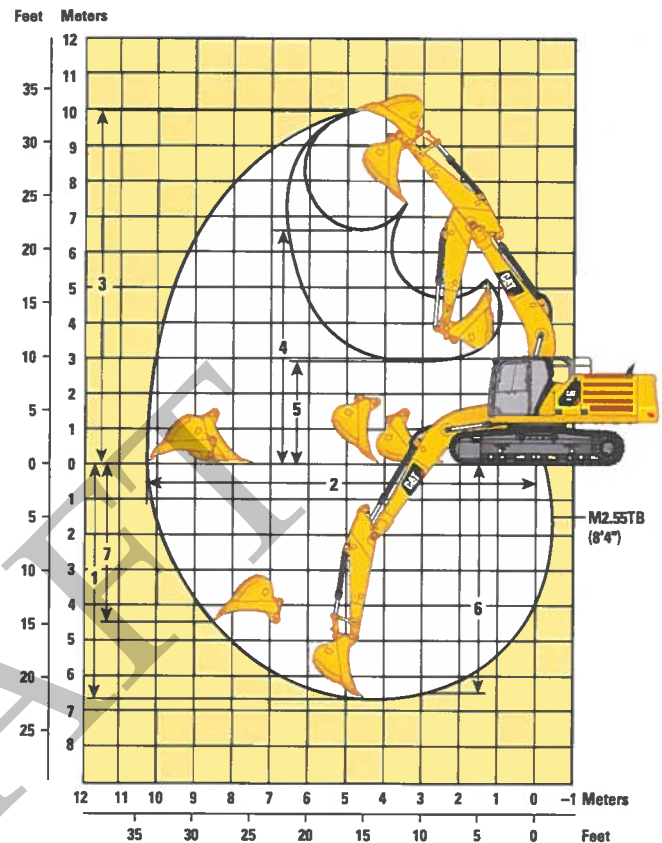
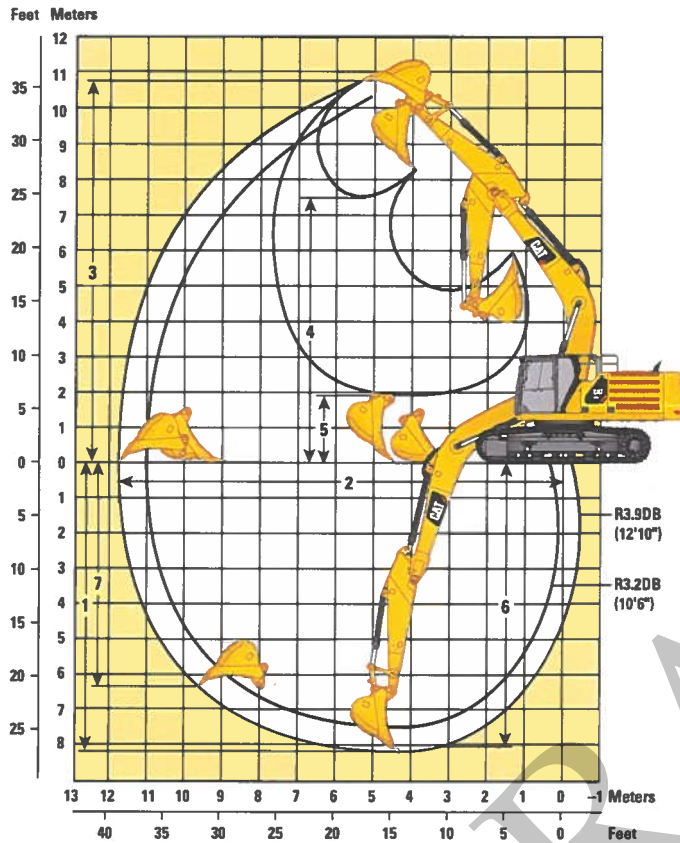


Boom Options			Reach Boom 6.5 m (21'4")		Mass Boom 6.18 m (20'3")			
Stick Options			Reach Stick		Mass Stick M2.55TB (8'4")			
			R3.9DB (12'10")				R3.2DB (10'6")	
1 Machine Height:								
Cab Height			3170 mm	10.4 ft	3170 mm	10.4 ft	3170 mm	10.4 ft
FOGS Height			3310 mm	10.9 ft	3310 mm	10.9 ft	3310 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

Stick Options

Reach Boom 6.5 m (21'4")

Mass Boom 6.18 m (20'3")

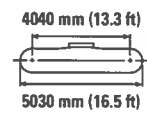
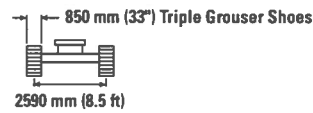
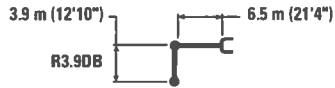
Reach Stick

Mass Stick M2.55TB (8'4")

	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 *28,200	9450						*9300 *20,400	9300 *20,400	6.06 20.00



ISO 10567



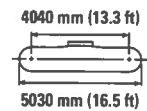
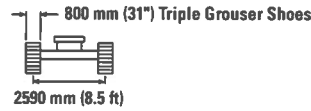
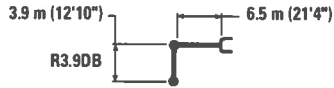
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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



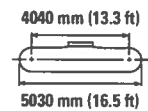
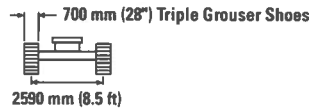
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Lift capacity stays with ±5% for all available track shoes.

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 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



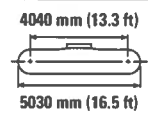
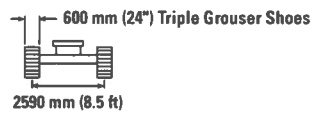
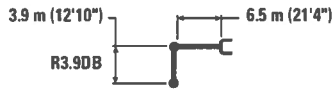
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Lift capacity stays with ±5% for all available track shoes.

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 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



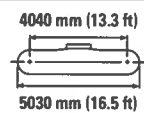
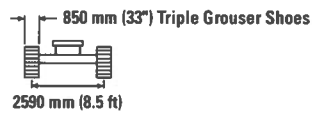
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

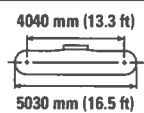
336 Hydraulic Excavator Specifications

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



	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



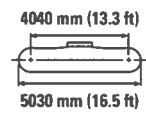
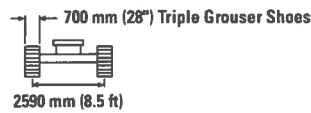
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

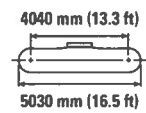
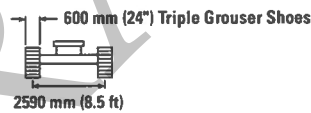
336 Hydraulic Excavator Specifications

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



		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



ISO 10567



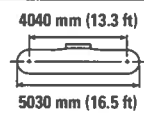
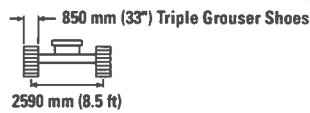
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

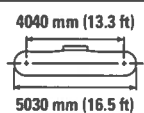
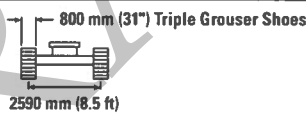
336 Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 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



ISO 10567



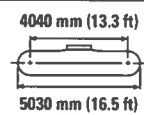
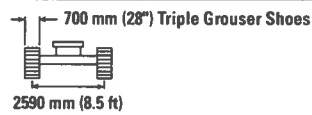
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

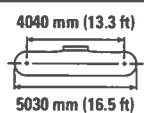
336 Hydraulic Excavator Specifications

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	8750 18,850		*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	8650 18,650		*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



ISO 10567



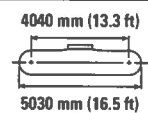
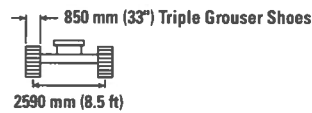
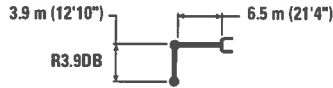
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Lift capacity stays with ±5% for all available track shoes.

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



		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	*11 650 *25,200	10 750 23,150	*9800 *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



ISO 10567



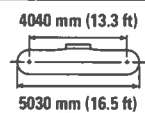
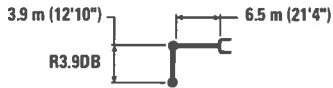
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Lift capacity stays with ±5% for all available track shoes.

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



		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	*9500 *9500					*9300 *20,400	*9300 *20,400	6.06 20.00



ISO 10567



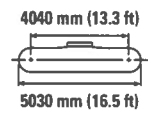
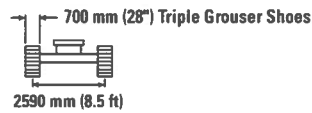
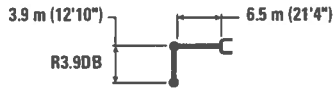
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Lift capacity stays with ±5% for all available track shoes.

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



		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



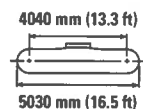
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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	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	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	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	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	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	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	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	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



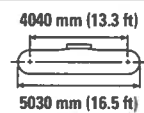
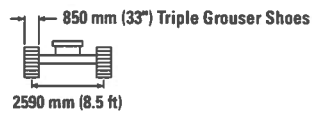
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Lift capacity stays with ±5% for all available track shoes.

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

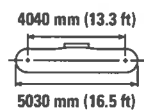
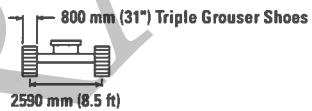
336 Hydraulic Excavator Specifications

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	8250			*7400	*7400	7.70
	lb										*16,300	*16,300	25.00
6.0 m 20.0 ft	kg						*8950	8200			*7200	6600	8.58
	lb						*19,550	17,600			*15,800	14,600	28.33
4.5 m 15.0 ft	kg		*13 550	*13 550	*10 950	*10 950	*9600	8000	*8500	6000	*7250	5850	9.13
	lb				*23,650	*23,650	*20,900	17,150			*15,900	12,950	30.00
3.0 m 10.0 ft	kg		*17 200	15 950	*12 650	10 600	*10 500	7700	9000	5900	*7500	5500	9.41
	lb		*37,000	34,450	*27,400	22,800	*22,800	16,600	19,300	12,650	*16,500	12,100	30.83
1.5 m 5.0 ft	kg		*19 850	15 050	*14 200	10 100	*11 350	7450	8850	5750	*8050	5350	9.44
	lb		*42,800	32,450	*30,700	21,750	*24,600	16,000	19,000	12,350	*17,650	11,800	31.67
0 m 0 ft	kg		*20 700	14 700	*15 100	9800	11 350	7250	8750	5650	8450	5500	9.22
	lb		*44,850	31,600	*32,650	21,100	24,400	15,600	18,800	12,200	18,600	12,050	30.83
-1.5 m -5.0 ft	kg	*14 100	*14 100	*20 300	14 600	*15 200	9650	11 250	7150		9050	5850	8.75
	lb	*31,850	*31,850	*44,050	31,400	*32,850	20,800	24,150	15,400		20,000	12,900	29.17
-3.0 m -10.0 ft	kg	*22 200	*22 200	*18 850	14 700	*14 350	9700	*11 150	7200		*10 200	6650	7.96
	lb	*50,250	*50,250	*40,800	31,650	*31,050	20,850	*23,850	15,500		*22,450	14,750	26.67
-4.5 m -15.0 ft	kg	*21 250	*21 250	*16 000	15 000	*12 150	9900				*10 250	8500	6.75
	lb	*45,750	*45,750	*34,400	32,300	*25,800	21,350				*22,550	18,950	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	8250			*7400	*7400	7.70
	lb										*16,300	*16,300	25.00
6.0 m 20.0 ft	kg						*8950	8150			*7200	6550	8.58
	lb						*19,550	17,550			*15,800	14,550	28.33
4.5 m 15.0 ft	kg		*13 550	*13 550	*10 950	*10 950	*9600	7950	*8500	6000	*7250	5850	9.13
	lb				*23,650	*23,650	*20,900	17,100			*15,900	12,900	30.00
3.0 m 10.0 ft	kg		*17 200	15 900	*12 650	10 550	*10 500	7650	8950	5850	*7500	5450	9.41
	lb		*37,000	34,300	*27,400	22,700	*22,800	16,500	19,200	12,600	*16,500	12,050	30.83
1.5 m 5.0 ft	kg		*19 850	15 000	*14 200	10 050	*11 350	7400	8800	5700	*8050	5350	9.44
	lb		*42,800	32,300	*30,700	21,650	*24,600	15,950	18,900	12,300	*17,650	11,750	31.67
0 m 0 ft	kg		*20 700	14 600	*15 100	9750	11 300	7200	8700	5650	8400	5450	9.22
	lb		*44,850	31,450	*32,650	21,000	24,250	15,500	18,700	12,100	18,500	12,000	30.83
-1.5 m -5.0 ft	kg	*14 100	*14 100	*20 300	14 550	*15 200	9600	11 200	7100		9000	5800	8.75
	lb	*31,850	*31,850	*44,050	31,250	*32,850	20,700	24,050	15,300		19,900	12,850	29.17
-3.0 m -10.0 ft	kg	*22 200	*22 200	*18 850	14 650	*14 350	9650	*11 150	7150		*10 200	6650	7.96
	lb	*50,250	*50,250	*40,800	31,500	*31,050	20,750	*23,850	15,400		*22,450	14,700	26.67
-4.5 m -15.0 ft	kg	*21 250	*21 250	*16 000	14 950	*12 150	9850				*10 250	8450	6.75
	lb	*45,750	*45,750	*34,400	32,150	*25,800	21,250				*22,550	18,900	22.50



ISO 10567



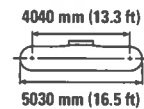
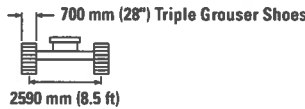
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

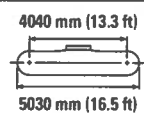
336 Hydraulic Excavator Specifications

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



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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

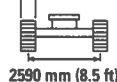
Mass Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

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

M2.55TB



850 mm (33") Triple Grouser Shoes



4040 mm (13.3 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 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 7750		*8550 *18,850	7600 16,950	7.60 25.00
4.5 m 15.0 ft	kg lb			*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	10 750 23,100	*10 200 *22,300	7600 16,350	*8550 *18,800	6550 14,550	8.21 27.50
3.0 m 10.0 ft	kg lb			*18 000 *38,650	15 350 33,150	*13 150 *28,450	10 200 21,950	*10 900 *23,650	7350 15,850	*8900 *19,500	6050 13,350	8.52 28.33
1.5 m 5.0 ft	kg lb			*20 000 *43,150	14 550 31,300	*14 350 *31,050	9700 20,950	11 250 24,200	7100 15,300	9250 20,400	5900 13,000	8.55 28.33
0 m 0 ft	kg lb			*20 200 *43,800	14 250 30,650	*14 900 *32,250	9450 20,350	11 050 23,850	6950 15,000	9550 21,050	6050 13,350	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	14 250 30,700	*14 500 *31,400	9350 20,200	11 050 23,800	6950 14,950	10 500 23,200	6650 14,600	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	14 500 31,150	*12 900 *27,650	9500 20,500			*10 600 *23,350	7950 17,650	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

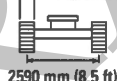
Mass Boom Lift Capacities – Counterweight: 7.56 mt (16,667 lb) – without Bucket, Heavy Lift: On

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

M2.55TB



800 mm (31") Triple Grouser Shoes



4040 mm (13.3 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 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 7750		*8550 *18,850	7550 16,850	7.60 25.00
4.5 m 15.0 ft	kg lb			*14 650 *31,550	*14 650 *31,550	*11 650 *25,250	10 700 23,000	*10 200 *22,300	7600 16,300	*8550 *18,800	6550 14,450	8.21 27.50
3.0 m 10.0 ft	kg lb			*18 000 *38,650	15 300 33,000	*13 150 *28,450	10 150 21,850	*10 900 *23,650	7300 15,750	*8900 *19,500	6050 13,300	8.52 28.33
1.5 m 5.0 ft	kg lb			*20 000 *43,150	14 450 31,150	*14 350 *31,050	9650 20,850	11 200 24,100	7100 15,250	9200 20,300	5850 12,900	8.55 28.33
0 m 0 ft	kg lb			*20 200 *43,800	14 200 30,500	*14 900 *32,250	9400 20,250	11 000 23,700	6900 14,900	9500 20,950	6050 13,250	8.31 27.50
-1.5 m -5.0 ft	kg lb	*17 800 *40,400	*17 800 *40,400	*19 200 *41,600	14 200 30,550	*14 500 *31,400	9350 20,100	11 000 23,700	6900 14,900	10 450 23,100	6600 14,550	7.78 25.83
-3.0 m -10.0 ft	kg lb	*22 000 *47,800	*22 000 *47,800	*16 950 *36,600	14 400 31,000	*12 900 *27,650	9450 20,400			*10 600 *23,350	7900 17,550	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



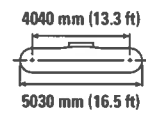
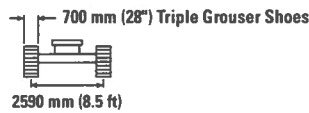
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

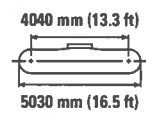
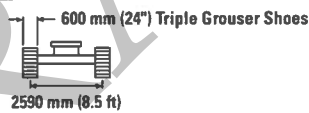
336 Hydraulic Excavator Specifications

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



* 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)

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

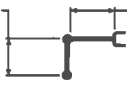
Lift capacity stays with ±5% for all available track shoes.

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

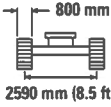
336 Hydraulic Excavator Specifications

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

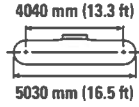
3.9 m (12'10")
R3.9DB (HD)



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



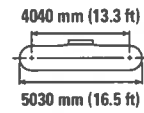
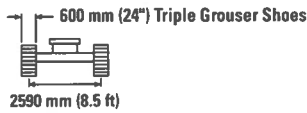
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Lift capacity stays with ±5% for all available track shoes.

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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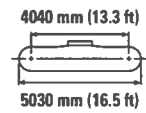
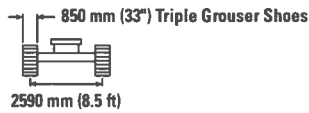
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

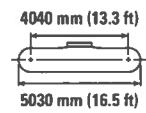
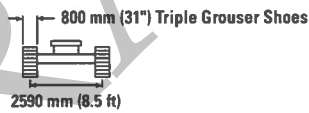
336 Hydraulic Excavator Specifications

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						*8700	8200			*7350	*7350	7.70
	lb										*16,200	*16,200	25.00
6.0 m 20.0 ft	kg						*8800	8100			*7100	6500	8.58
	lb						*19,250	17,400			*15,650	14,400	28.33
4.5 m 15.0 ft	kg		*13 400	*13 400	*10 800	*10 800	*9450	7900	*8400	5900	*7150	5750	9.13
	lb				*23,350	*23,350	*20,550	16,950			*15,750	12,700	30.00
3.0 m 10.0 ft	kg		*17 000	15 800	*12 500	10 450	*10 350	7600	8900	5750	*7450	5400	9.41
	lb		*36,500	34,100	*27,000	22,550	*22,400	16,300	19,100	12,400	*16,350	11,850	30.83
1.5 m 5.0 ft	kg		*19 550	14 850	*14 000	9950	*11 150	7300	8750	5650	*8000	5250	9.44
	lb		*42,200	32,000	*30,200	21,450	*24,200	15,700	18,750	12,100	*17,550	11,550	31.67
0 m 0 ft	kg		*20 400	14 450	*14 850	9600	11 200	7100	8600	5500	8350	5350	9.22
	lb		*44,200	31,050	*32,150	20,700	24,100	15,250	18,550	11,900	18,350	11,750	30.83
-1.5 m -5.0 ft	kg	*14 000	*14 000	*20 000	14 350	*14 950	9450	11 100	7000		8950	5700	8.75
	lb	*31,700	*31,700	*43,350	30,850	*32,350	20,400	23,850	15,050		19,700	12,600	29.17
-3.0 m -10.0 ft	kg	*22 150	*22 150	*18 550	14 450	*14 100	9500	*10 950	7050		*10 000	6550	7.96
	lb	*50,100	*50,100	*40,150	31,100	*30,500	20,450	*23,450	15,150		*22,000	14,450	26.67
-4.5 m -15.0 ft	kg	*20 850	*20 850	*15 700	14 750	*11 900	9700				*10 050	8350	6.75
	lb	*44,950	*44,950	*33,750	31,800	*25,350	21,000				*22,100	18,650	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						*8700	8150			*7350	*7350	7.70
	lb										*16,200	*16,200	25.00
6.0 m 20.0 ft	kg						*8800	8100			*7100	6450	8.58
	lb						*19,250	17,350			*15,650	14,300	28.33
4.5 m 15.0 ft	kg		*13 400	*13 400	*10 800	*10 800	*9450	7850	*8400	5850	*7150	5750	9.13
	lb				*23,350	*23,350	*20,550	16,900			*15,750	12,650	30.00
3.0 m 10.0 ft	kg		*17 000	15 750	*12 500	10 400	*10 350	7550	8850	5750	*7450	5350	9.41
	lb		*36,500	33,950	*27,000	22,450	*22,400	16,250	19,000	12,350	*16,350	11,800	30.83
1.5 m 5.0 ft	kg		*19 550	14 750	*14 000	9900	*11 150	7250	8700	5600	*8000	5200	9.44
	lb		*42,200	31,850	*30,200	21,350	*24,200	15,650	18,650	12,050	*17,550	11,500	31.67
0 m 0 ft	kg		*20 400	14 350	*14 850	9550	11 150	7050	8550	5500	8300	5300	9.22
	lb		*44,200	30,900	*32,150	20,600	24,000	15,200	18,450	11,850	18,250	11,700	30.83
-1.5 m -5.0 ft	kg	*14 000	*14 000	*20 000	14 250	*14 950	9400	11 050	6950		8900	5700	8.75
	lb	*31,700	*31,700	*43,350	30,700	*32,350	20,300	23,750	15,000		19,600	12,550	29.17
-3.0 m -10.0 ft	kg	*22 150	*22 150	*18 550	14 400	*14 100	9450	*10 950	7000		*10 000	6500	7.96
	lb	*50,100	*50,100	*40,150	30,950	*30,500	20,350	*23,450	15,100		*22,000	14,400	26.67
-4.5 m -15.0 ft	kg	*20 850	*20 850	*15 700	14 700	*11 900	9650				*10 050	8300	6.75
	lb	*44,950	*44,950	*33,750	31,650	*25,350	20,900				*22,100	18,550	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 19,250	8050 17,100			*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 15,550	6350 14,100	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400 29,700	*13 400 29,700	*10 800 23,350	*10 800 23,350	*9450 20,550	7750 16,650	*8400 18,700	5800 12,150	*7150 15,750	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	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	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	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	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	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	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 19,250	7950 17,000			*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 15,550	6300 14,000	8.58 28.33
4.5 m 15.0 ft	kg lb			*13 400 29,700	*13 400 29,700	*10 800 23,350	10 750 23,200	*9450 20,550	7650 16,500	*8400 18,500	5750 12,050	*7150 15,750	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	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	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	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	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	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	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

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	1700	68	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	1700	68	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		Mass
										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	⊖	○		⊖	○	⊖	○		
Heavy Duty Pin Grabber Performance	DB	1500	60	1.86	2.43	1642	3,620	100	○	◇		⊖	◇	⊖	○		
	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

The City of Bethel is proud to announce its local artist talent search. Residents of the Bethel community are invited to submit proposals to create an original piece of paintable artwork for the Big Dipper Field Park sign. The workspace is the Big Dipper Filed connex which faces Akiachak Drive. The paintable space size is approximately 19' wide and 7' tall, however the entire space does not need to be used.

Artwork Criteria

- Two-dimensional media
- Transferable onto the approximately 19' wide and 7.5' tall connex although the entire space does not need to be used
- Simple enough to be hand painted by kids ages 8+ with adult supervision and support
- Contain the text "Big Dipper Field"

Evaluation/Selection Process

Initial review and verification of criteria will be performed by the City Clerk's Office. If the submission meets the specifications above, it will advance to the second level of review.

The second level of review will occur if there are more than four qualifying submissions. This review will be performed by the volunteer members of the Community Parks and Recreation Committee. This volunteer advisory body will narrow the submission pool to four and determine if the submission meets the criteria set out in Section 1. Those four will advance to the 2022 Kids Vote ballot.

Kids from the community will be provided an opportunity to vote on their top choice at the September. The art of the Kids Vote election will be the winner of the contest.

Submit Artwork

Artwork will be accepted by the City Clerk's Office between July 11 and August 1.

In person: 300 Chief Eddie Hoffman Highway Monday – Friday 8a-5p, call 907-543-1384 to setup an appointment.

Email: cityclerk@cityofbethel.net

Mail: City Clerk's Office
P.O. Box 1388
Bethel, AK 99559

It is our hope and intent, the winning piece of art from the Kids Vote will be painted onto the connex at the Big Dipper Field through a youth art camp the summer of 2023.

Dates to remember

July 11- August 1 Submission Timeframe

August 8 Community Parks and Recreation Agenda Review

September 12, Kids Vote Week

BIG DIPPER FIELD SIGN DESIGN CONTEST

The City of Bethel is proud to announce its local artist talent search. Residents of Bethel are invited to create and submit an original piece of paintable artwork for the Big Dipper Field Park sign. The workspace is the Big Dipper Filed connex which faces Akiachak Drive. The paintable space size is approximately 19' wide and 7.5' tall. Four qualifying sign designs will be voted on at this year's Kids Vote.

Artwork Criteria

- Two-dimensional media
- Transferable onto the approximately 19' wide and 7.5' tall connex although the entire space does not need to be used
- Simple enough to be hand painted by kids ages 8+ with adult supervision and support
- Contain the text "Big Dipper Field"

Evaluation/Selection Process

1. Initial review and verification of criteria will be performed by the City Clerk's Office. If the submission meets the specifications above, it will advance to the second level of review.
2. If there are more than four qualifying submissions, volunteer members of the Community Parks and Recreation Committee will confirm the Artwork Criteria is met and narrow the submission pool to four proposals. Those four proposals will advance to the 2022 Kids Vote ballot.
3. Kids from the community will vote on their top choice in September. The Kids Vote election will determine the winner of the contest.

Artwork Submission and Contest Contact

Artwork will be accepted by the City Clerk's Office between July 11th and August 1st, 2022.

In-person: call 907-543-1384 to setup an appointment, Monday – Friday 8a-5p, then go to 300 Chief Eddie Hoffman Highway and ring the buzzer for the Clerk's Office.

By Email: cityclerk@cityofbethel.net

By Mail: City Clerk's Office, P.O. Box 1388, Bethel, AK 99559

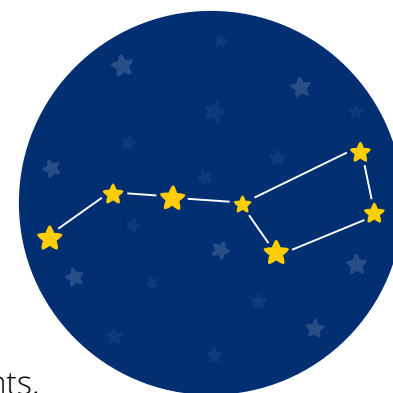
Dates to Remember

July 11th- August 1st Submission Timeframe

August 8th Community Parks and Recreation Committee Review

September 12th, Kids Vote Week-Tentative

The City has the right to modify the contest rules and timelines at any time and without notice to participants.
The City has the right to refuse consideration of any entry for any reason.



Big Dipper Field Sign Design Goes Above

Your sign design can go in the above provided space or a separate piece of paper, up to you. Submit the design and the below information to the City Clerk's Office by August 1, 2022. Make sure the items below are considered when designing the sign.

- ☒ Two Dimensional (you can't have things coming off the page).
- ☒ Simple enough to be hand painted by kids ages 8+ with adult supervision.
- ☒ Contain the text Big Dipper Field.
- ☒ Transferable within a 19' by 7.5' tall connex.

Artist Name

Artist Age if Under 18

Artist's Guardian Name if under 18

Phone

Email

Schedule, Events and Programs

Visit ykfitness.org for the most up to date schedules and information.

During April and May we have reduced our COVID-19 restrictions adopting the updated CDC and Alaska DHSS policies of a tiered approach based on community risk levels as identified by YKHC. The risk level remained in the Medium Zone for May and we were able to move towards more normal operations and expand access.

Through April and May we offered Swim Lessons and Lifeguard Training.



Now Hiring Lifeguards

Lifeguard training and certification course:

**Sundays 12pm-7pm
April 24 - May 8th, 2022**



Yukon-Kuskokwim Fitness Center
267 Aklachak Dr
Bethel, AK 99559
www.ykfitness.org
(907) 543-0390

GROUP SWIM LESSONS				
Classes meet May 16th - June 19th				
For COVID-19 safety all participants must be fully vaccinated (final shot +2 weeks) by the first day of class. Please bring vaccination card to registration and to first day of class.				
AGE*	CLASS	Day/Time**	REQUIREMENTS/PRE-REQUISITES	Fee (+ tax)
3-5 years	Preschool 1	Tuesdays at 9:30am with Eli	Swimmers entering this class must be at least 5 years old on the first day of class.	\$30
	Preschool 2	Tuesdays at 5:00pm with Eli	Swimmers entering this level must be at least 5 years old on the first day of class, should be willing to put their face in the water, fully submerge the head and be willing to float on their back with ears in the water with minimal assistance.	
6+ years	Level 1	Tuesdays at 6:25pm with Eli	Swimmers entering this level should be comfortable putting their face in the water and fully submerging underwater without assistance. Swimmers should be able to float with minimal assistance on front with face in the water and on back with ears in the water and be ready to attempt these skills without support.	\$15
	Level 2 New Class	Saturdays 10:45am with Sally	Swimmers entering this level should be comfortable putting their face in the water and fully submerging underwater without assistance. Swimmers should be able to float with minimal assistance on front with face in the water and on back with ears in the water and be ready to attempt these skills without support.	
	Level 3	Saturdays at 11:35am with Sally	Swimmers entering this level should be comfortable under the water, be able to float on front and back without support for 10-15 seconds, be able to swim 5-10 yards on front and on back and be ready to begin attempting skills in deep water. Swimmers entering this class must be at least 6 years old on the first day of class.	
16+	Adult Intermediate	Saturdays at 12:30pm with Sally	Swimmers entering this class should be familiar with the basic swim strokes and ready to develop/improve swim technique and endurance. Instructor will work with students to develop and improve stroke technique and water safety skills.	\$30

*Participants must be fully vaccinated and meet minimum age requirements by first day of class. See class descriptions for more details.

Reduced rates for YKFC Swim Lessons are made possible through generous funding from The American Red Cross Centennial Program and The YK Delta Lifesavers Foundation.

updated 5/13/22

The Covid Risk Today is: **Medium**

Face Masks are: **Encouraged**

Pool Reservations: **Required for zones 4 & 5 only**

Capacities: **Pool Capacity Restrictions**

Concessions: **Some Restrictions**

Non-Vaccinated: **Non-vaccinated patrons should wait 10 days to use the facility if they have traveled outside of Bethel, tested positive for Covid-19, been exposed to Covid-19**

With the assistance of the City Grant Manager, John Sargent, we received grant funds to increase access to our Healthy Activities Club for youth and we began planning and preparation for club.



Healthy Activities Club Frequently Asked Questions

WHAT IS HEALTHY ACTIVITIES CLUB?

NON-STOP FUN INCLUDING FOCUSED PLAY, DEVELOPING HEALTHY HABITS, AND LEARNING ABOUT OURSELVES AND OUR COMMUNITY.

FIELD GAMES
SWIMMING & WATER SAFETY
STORY TELLING
WFO
DANCE
HOME & COMMUNITY SAFETY
HELPING OUR COMMUNITY

REGISTRATION
FULL DAY = \$240/WEEK
HALF DAY = \$130/WEEK
SCHOLARSHIPS AVAILABLE

YKFITNESS.ORG 543-0390

MAY 31- AUG 5



SUMMER 2022 HEALTHY ACTIVITIES CLUB

MAY 31ST - AUG 5TH
8:00 AM - 5:30 PM
FULL DAY \$240 PER WEEK
HALF DAY \$130 PER WEEK
SCHOLARSHIPS AVAILABLE

WHY PLAY WITH US?

- Fun indoor and outdoor sports, games, and activities including:
- Field Games
- Swimming & Water Safety
- Story Telling
- WFO
- Dance
- Home & Community Safety
- Helping our community

YKFITNESS.ORG
407-543-0390



Healthy Activities Club Frequently Asked Questions

WHO CAN JOIN HEALTHY ACTIVITIES CLUB?

CLUB IS OPEN TO YOUTH AGES 5-13 YEARS WHO ARE REGISTERED WITH BETHEL 4-H.

VISIT [HTTP://WWW.ALASKA4H.ORG/ENROLLMENT.HTML](http://WWW.ALASKA4H.ORG/ENROLLMENT.HTML) TO ENROLL IN BETHEL 4-H

REGISTRATION
FULL DAY = \$240/WEEK
HALF DAY = \$130/WEEK
SCHOLARSHIPS AVAILABLE

YKFITNESS.ORG 543-0390

MAY 31- AUG 5

As we move into summer we updated our facility hours, offered Summer Pool Memberships, and shared info on our upcoming closure for maintenance.



Summer 2022 Facility Hours Starting May 31st

Facility Closed for Maintenance June 20th - 26th

Day	Fitness Hours	Pool Hours
Monday		
Tuesday	5:30 am-9:00 pm	5:30am - 9:00am 12:00pm - 8:30pm
Wednesday		
Thursday		Closed
Friday	5:30 am-10:00 pm	5:30am - 9:00am 12:00pm-9:30pm
Saturday	10:00am-10:00pm	10:00am - 9:30pm
Sunday	2:00-9:00pm	2:00pm - 8:30pm

Pool Reservations may be required. Visit ykfitness.org for up-to-date policies and requirements.



COOLEST PLACE TO BE THIS SUMMER

SUMMER 2022 POOL MEMBERSHIP SPECIAL

MEMORIAL DAY-LABOR DAY
ONLY \$99 FOR ADULTS
\$69 FOR YOUTH & SENIORS

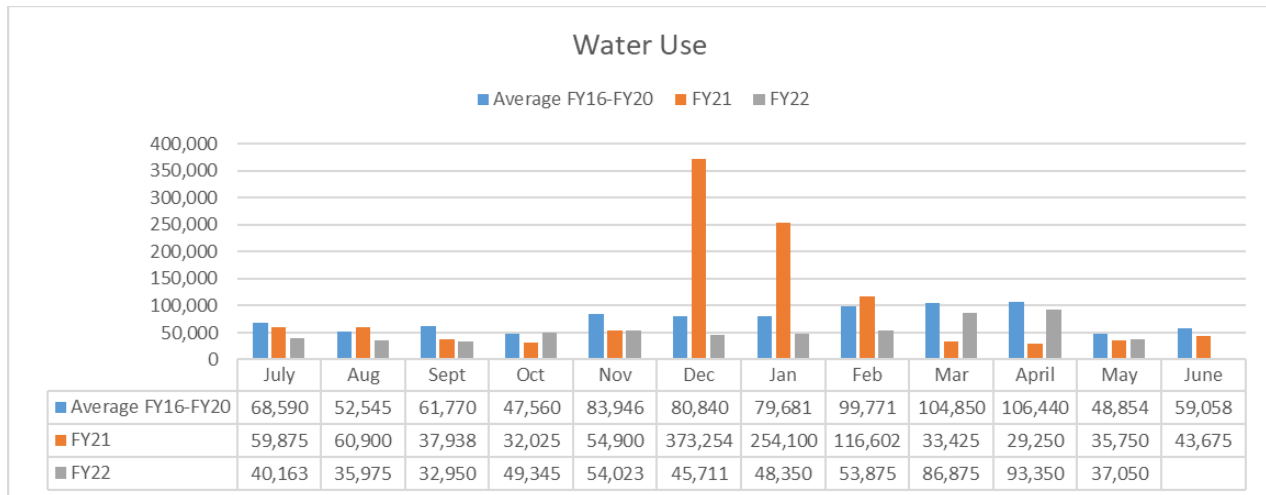
GET YOURS TODAY!



Closed for Maintenance June 20th - 26th.

We appreciate your patience and understanding.

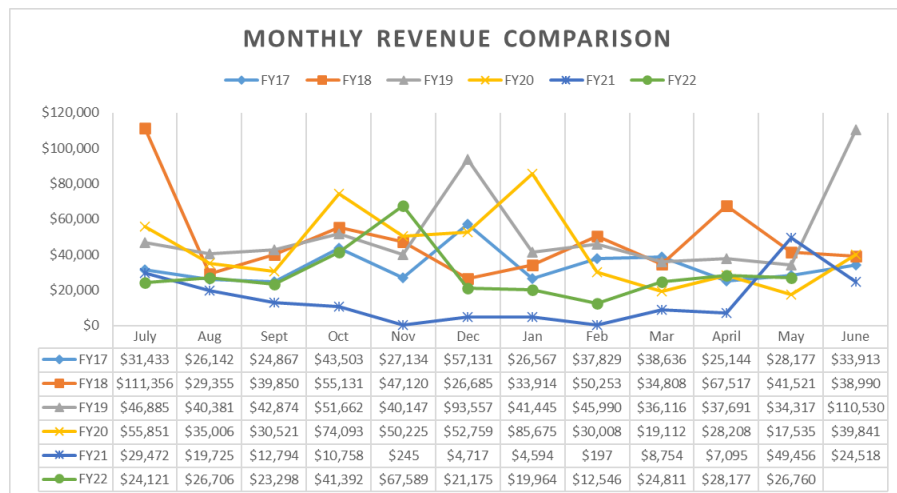
Water Use



*Note: Facility opened in November of 2014 (FY15). Starting during maintenance closure in Dec 2019/Jan 2020 hot water has been used to keep pipes from freezing resulting in higher-than-normal usage. Water was turned off in late March 2020 once outside temps were consistently above freezing temperatures. Problems again arose in Dec 2020 and water was used to assure there were no freeze ups of facility piping through early March 2021.

Revenue

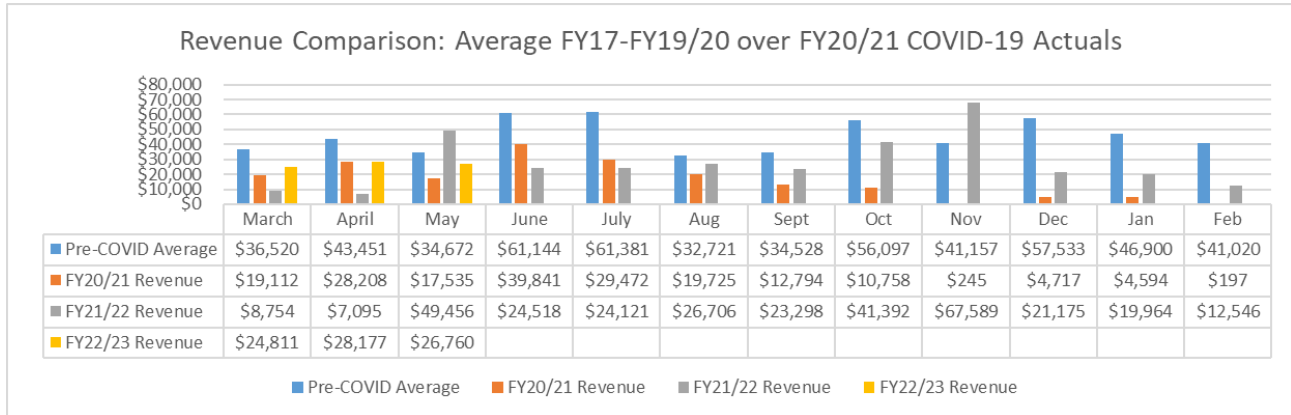
Code	Facility Revenue	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Total	FY22 Budgeted	%attained
414	Memberships	\$10,595	\$15,569	\$6,168	\$32,050	\$54,709	\$10,635	\$7,628	\$2,923	\$10,354	\$12,052	\$6,790		\$169,474	\$260,000	65%
430	Pro Shop	\$2,397	\$1,555	\$1,303	\$2,680	\$2,633	\$2,826	\$2,836	\$2,227	\$3,471	\$3,375	\$3,777		\$29,081	\$40,000	73%
435	Concessions	\$1,574	\$1,288	\$1,307	\$1,853	\$2,003	\$2,253	\$2,097	\$2,008	\$2,623	\$3,388	\$3,735		\$24,128	\$60,000	40%
460	Entry Fees	\$7,650	\$1,706	\$12,323	\$3,460	\$6,794	\$4,754	\$4,264	\$4,459	\$5,844	\$8,037	\$5,841		\$65,130	\$100,000	65%
463	Facility Rental	\$630	\$5,672	\$1,692	\$933	\$475	\$240	\$1,317	\$265	\$1,495	\$585	\$335		\$13,636	\$25,500	53%
465	Program Fees	\$1,275	\$917	\$505	\$415	\$976	\$467	\$1,821	\$665	\$1,025	\$741	\$6,284		\$15,091	\$50,000	30%
	Misc (Grants, Donations, Etc.)													\$0	\$0	
	Facility Revenue Total	\$24,121	\$26,706	\$23,298	\$41,392	\$67,589	\$21,175	\$19,964	\$12,546	\$24,811	\$28,177	\$26,760	\$0	\$316,540	\$535,500	59%



Comparison of pre-COVID-19 averages and revenue actuals, Pre-COVID-19 averages and March 2020 – present.

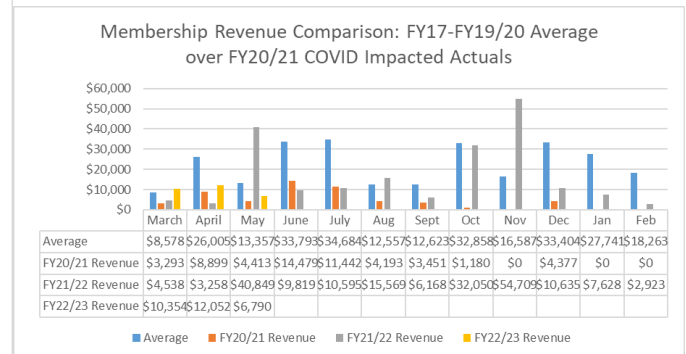
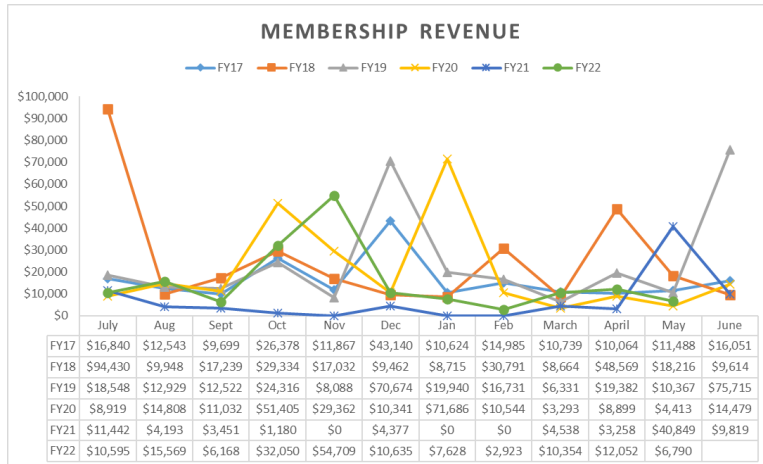
COVID-19 Comparisons	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Total
Pre-COVID Average	\$36,520	\$43,451	\$34,672	\$61,144	\$61,381	\$32,721	\$34,528	\$56,097	\$41,157	\$57,533	\$46,900	\$41,020	\$547,124
FY20/21 Revenue	\$19,112	\$28,208	\$17,535	\$39,841	\$29,472	\$19,725	\$12,794	\$10,758	\$245	\$4,717	\$4,594	\$197	\$187,199
FY21/22 Revenue	\$8,754	\$7,095	\$49,456	\$24,518	\$24,121	\$26,706	\$23,298	\$41,392	\$67,589	\$21,175	\$19,964	\$12,546	\$326,614
FY22/23 Revenue	\$24,811	\$28,177	\$26,760										
COVID-19 Deficit	\$56,884	\$66,872	\$10,263	\$57,929	\$69,170	\$19,011	\$32,965	\$60,044	\$14,479	\$89,174	\$69,242	\$28,276	\$574,310

*June & July Averages are skewed approximately \$30,000 higher than the average month due to large payments typically received during one or the other month.

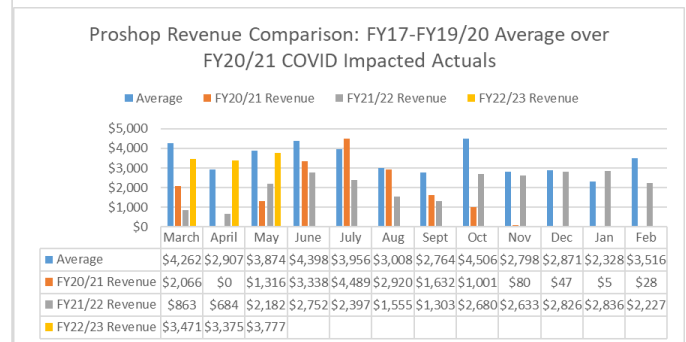
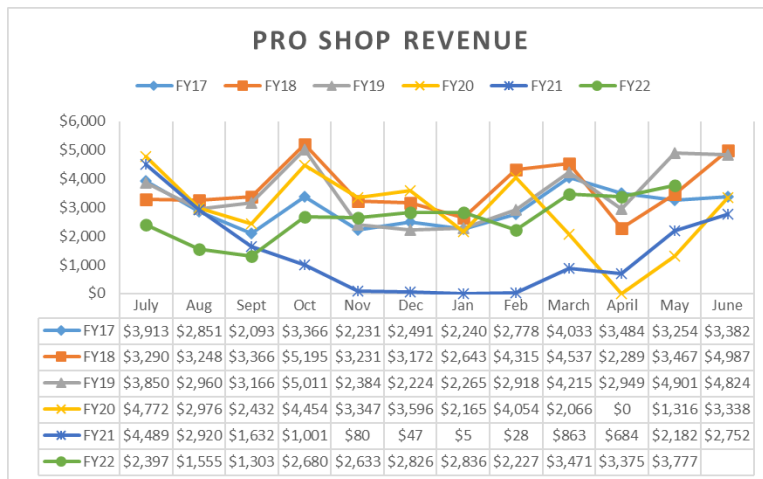


Revenue Comparisons by line Item:

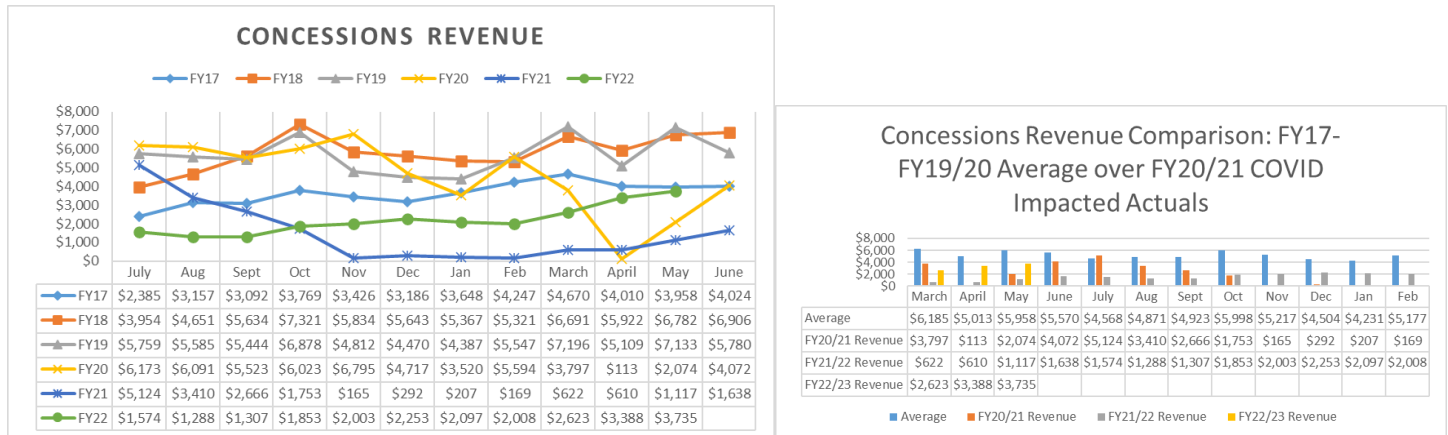
Confidence in growing in the community that we are reaching the end of the pandemic and membership revenue is beginning to re-build.



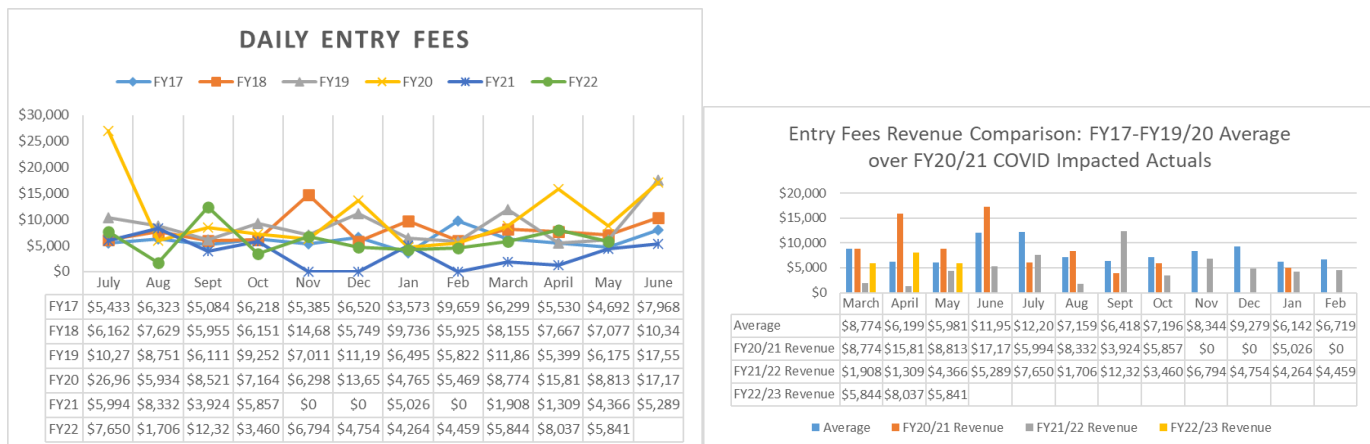
Proshop revenues are rebounding with our increased facility use.



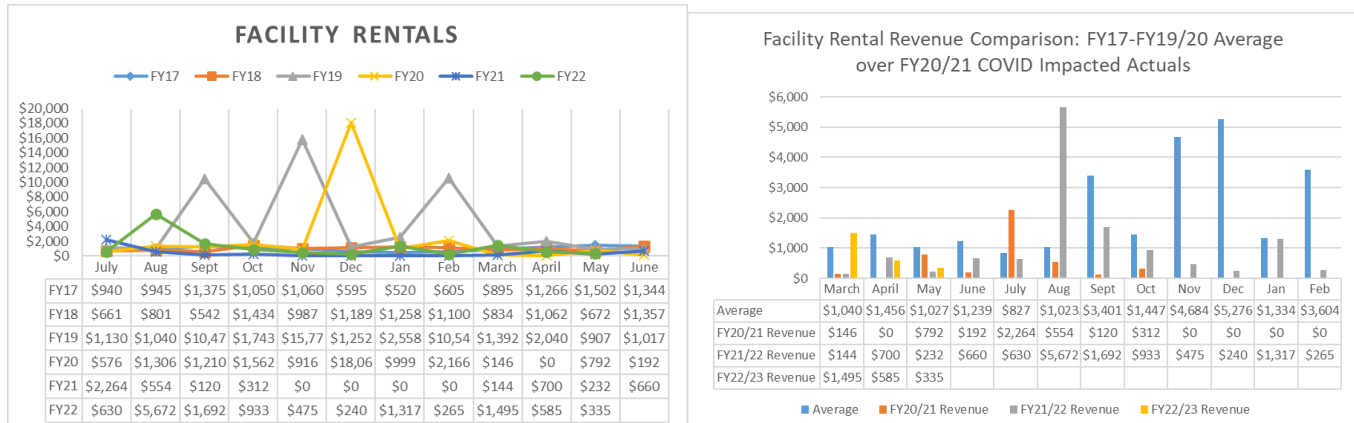
Concessions revenue has started to rebound, but is still only about half of pre-COVID averages due to ongoing facility restrictions limiting eating, group sizes, and amount of time spent at the facility and supply chain shortages and delivery delays reducing the items we have on hand for purchase.



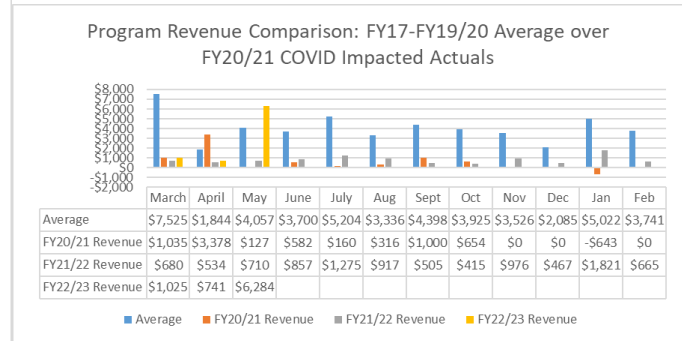
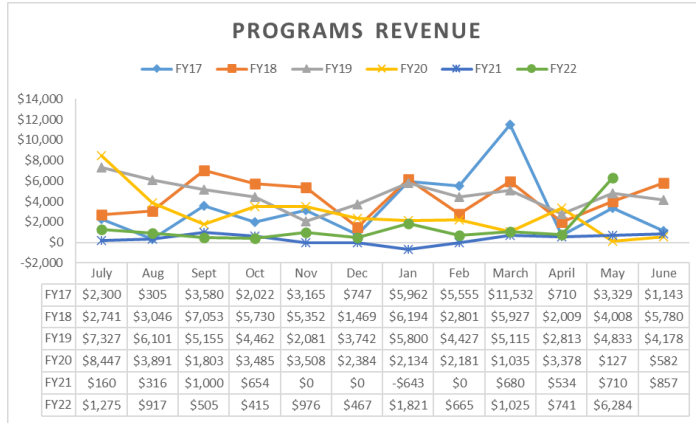
Daily entry fee revenue fluctuations do not directly reflect monthly entry numbers as fees paid under corporate agreements may be paid either in advance of pass use or after monthly/quarterly billing. That said we have seen an increase in purchase of daily use passes.



Facility rental fees will continue to remain low until we are able to resume group rentals and parties. Current rental fees primarily reflect locker rentals.



We have been able to resume limited programming for our swim lessons and also had a good number of Group Fitness classes running. Additional swim lessons revenue will be collected after invoiced amounts are received from grant funders.

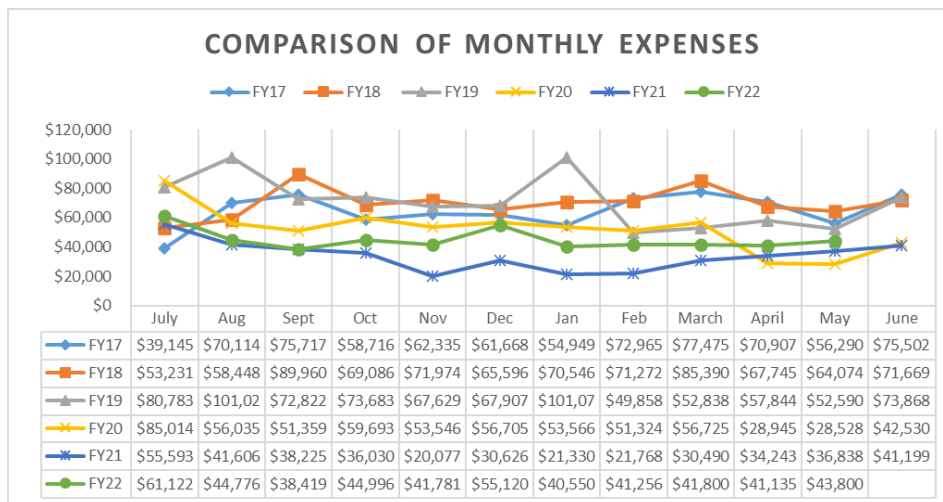


FY21 Expenses

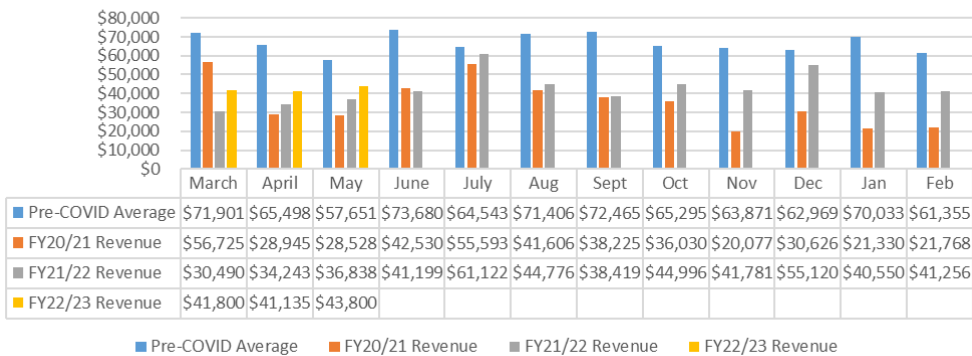
	Expenses FY22	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Total	Budgeted	% used
	Wages & Benefits	\$51,354	\$31,937	\$29,545	\$31,483	\$31,019	\$49,085	\$33,536	\$32,691	\$34,299	\$32,211	\$31,653		\$388,815	\$696,442	55.83%
520	Housing	\$2,545	\$2,545	\$2,545	\$2,545	\$2,545	\$2,545	\$2,545	\$2,545	\$2,545	\$1,545	\$1,545		\$25,995	\$42,900	60.59%
545	Travel/Training	\$265	\$0	\$51	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$316	\$2,000	15.81%
561	Supplies	\$1,270	\$7,622	\$3,363	\$3,892	\$3,278	\$801	\$1,084	\$3,175	\$812	\$3,592	\$5,626	\$0	\$34,515	\$87,000	39.67%
580, 661, 663,	Building Maintenance	\$1,364	\$115	\$251	\$257	\$821	\$45	\$710	\$146	\$65	\$457	\$48	\$0	\$4,281	\$30,100	14.22%
668	Software Licenses	\$253	\$329	\$242	\$438	\$707	\$221	\$207	\$133	\$279	\$303	\$284	\$0	\$3,397	\$8,146	41.71%
669	General Expenses	\$4,071	\$2,227	\$2,421	\$6,380	\$3,411	\$2,422	\$2,467	\$2,565	\$3,800	\$3,026	\$4,561	\$0	\$37,352	\$35,581	104.98%
790	Allowance for Special Events	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51	\$0	\$51	\$1,100	4.65%
799	Unforeseen	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500	0.00%
	Other/Non Budgeted	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32	\$0	\$32	\$0	
	TOTAL	\$61,122	\$44,776	\$38,419	\$44,996	\$41,781	\$55,120	\$40,550	\$41,256	\$41,800	\$41,135	\$43,800	\$0	\$494,755	\$905,769	54.62%

* Due to our 2 week pay period structure there are 2 months out of each year in which 3 pay periods fall, skewing wages totals upwards for those months.

**Expense totals do not include purchases for the building that have been made by City of Bethel Property Maintenance or other direct city expenses.



Expense Comparison: Average FY17-FY19/20 over FY20/21 COVID-19 Actuals



We have actively worked to keep expenses low while still making seasonal purchases, purchases for maintenance and cleaning, and to keep essential proshop and concessions items stocked as well to maintain minimum staffing levels. .

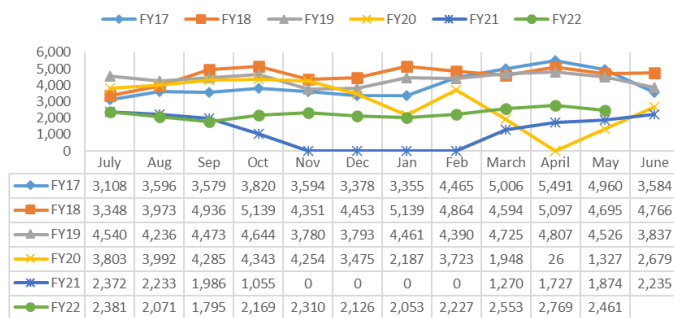
Facility Utilization

Facility Check-In: Facility Check-In numbers represent the total number of patrons who visited the facility and are based on a compilation of the number of members who checked-in, the number of daily passes sold and the number of participants in programs, activities, rentals, and special events. These numbers represent facility visits, not individuals as most individuals visit the facility multiple times over the course of the month.

Facility Check-In	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Total
Member Checkins	1,202	1,116	991	1199	1263	1194	1135	1098	1,149	1,331	1,058		12,736
Daily Admissions	1,119	696	632	724	959	854	822	896	1,230	1,253	1,267		10,452
Rentals	0	199	109	166	0	0	0	133	5	5	14		631
Fitness Programming	40	45	52	69	71	66	69	61	113	89	40		715
Aquatics Programming	20	15	11	11	17	12	27	39	56	91	31		330
Youth Programs	0		0	0	0	0	0	0	0	0	51		51
Monthly Totals	2,381	2,071	1,795	2,169	2,310	2,126	2,053	2,227	2,553	2,769	2,461	0	24,915

Concerns about COVID-19 began impacting facility utilization in late February 2020 and continue to the present, with April reaching about 54% of pre-COVID-19 normal.

COMPARISON OF MONTHLY CHECKIN TOTALS



Comparison of Checkin Totals, Pre-Covid v. COVID

