

CITY OF UNALASKA, ALASKA  
HISTORIC PRESERVATION COMMISSION  
REGULAR MEETING  
THURSDAY, NOVEMBER 16, 2023, 6:00 P.M.  
AGENDA

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**ZOOM Meeting Link:**

<https://us02web.zoom.us/j/84505322171?pwd=TGFiZCtIRGJBTnVZYi9IS2djYW9KUT09>

**Meeting ID:** 845 0532 2171    **Access Code:** 920078

**Toll Free Numbers:**    (833) 548 0276            (833) 548 0282            (877) 853 5247            (888) 788 0099

CALL TO ORDER  
ROLL CALL  
REVISIONS TO THE AGENDA  
APPEARANCE REQUESTS  
ANNOUNCEMENTS

MINUTES: Draft minutes from the meeting October 19, 2023

PUBLIC HEARING

*No items*

OLD BUSINESS

*No Items*

NEW BUSINESS

*No items*

WORKSESSION

1. Discussion on interpretive signage.

ADJOURNMENT

City of Unalaska  
HISTORIC PRESERVATION COMMISSION

P.O. Box 610 • Unalaska, Alaska 99685  
(907) 581-1251  
www.ci.unalaska.ak.us

**Regular Meeting**  
**Thursday, October 19,**  
**2023**  
**6:00 p.m.**

**Unalaska City Hall**  
**Council Chambers**  
**43 Raven Way**

**Commission Members**  
Ian Bagley  
Virginia Hatfield

Travis Swangel, Chairman  
City Representative: Bil Homka, City Manager  
Secretary: Cameron Dean, Planning Director

**Commission Members**  
Caroline Williams  
Rainier Marquez

MINUTES

1. Call to order. Commissioner Swangel called the Regular Meeting of the Unalaska Historic Preservation Commission to order at 6:00 pm, on October 17, 2023, in the Unalaska City Hall council chambers.
2. Roll call
 

<u>Present:</u>	<u>Absent:</u>
Travis Swangel	Virginia Hatfield
Ian Bagley	Caroline Williams
Bil Homka	Cameron Dean
3. Revisions to Agenda: None
4. Appearance requests: None
5. Announcements:
  1. Introduction of the New Planning Director, Cameron Dean
  2. The Planning Department is in the process of interviews for a new Administrative Assistant
  3. City Christmas Dinner December 2<sup>nd</sup>
6. Minutes: Minutes of February 16 and August 17 meeting approved with no edits.
7. Public Hearing: None
8. Old Business: None
9. New Business: None
10. Work session:
  1. Letter from Benjamin M. Storey, Regional Environmental Manager/PQI Archaeology, at the Alaska State Department Of Transportation & Public Facilities, Southcoast Region, regarding finding of effect for the demolition of the privately owned Naval Operating Transport Service Warehouse (NOTSW) building located within the Unalaska Airport in Unalaska -The Commission agreed with the notice. It was noted that the condition of the building relative to the limited historic significance of the building meant that the building did not warrant saving. The area would serve the community better as a new planned hanger facility. The Commission appreciated the opportunity to meet and review the case, however ultimately agreed with the assessment of the Department of Transportation Archeologist.
11. Adjournment: Having completed the agenda, the meeting was adjourned without objection at 6:13 p.m.

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Cameron Dean  
Secretary of Commission

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Travis Swangel  
Commission Chairman

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Date

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Date

# Tanaxtaxak Archaeological Site



This mound represents the remains of a late prehistoric Aleut/Unangan village. One of the largest sites in Unalaska Bay, the site is about 450 feet long, 100 feet wide, and at least 20 feet deep, extending well below and under the modern roadway.



This site has been the scene of archaeological investigations for more than a century, including some of the first in Alaska. William Healy Dall (above) began excavations in the early 1870s, followed by Russian anthropologist Waldemar Jocholson's (below, far right) trench which reached a depth of 15 feet.



During W.W.II a small lake at the foot of Dutch Harbor was filled in and parts of the site were destroyed in road building. A submarine net guarding Dutch Harbor was monitored from a concrete observation post which still stands. Troops stationed here were allowed to dig for artifacts on this site for recreation.

Do not disturb or dig at this or any other archaeological site. This is the property of the State of Alaska.

Although damaged, large portions of the site remain.

## Margaret Bay Archaeological Site

A piece of Aleut Unangan village  
excavated on top of this small hill from  
B.C. of about 3,000 years ago,  
leaving an archaeological deposit  
more than six feet deep. Some of  
the site was removed during the  
1941 construction of Fort Mears, an  
Army garrison intended to protect  
the Dutch Harbor Naval Operating  
Base.



It is unlawful to disturb or  
remove artifacts at this or any  
other archaeological site. This  
site is the property of the  
Gunalashka Corporation



Geological studies have shown that the  
relative sea level was at least six feet  
higher than it is today. The flat areas  
around you were once part of a shallow  
reef and lagoon system. The waters  
around the site began to recede in  
3,500 BP (Before Present), with the  
onset of the Neo-glacial, a period of  
colder climate. Prehistoric refuse at  
Margaret Bay contained fish, shellfish,  
birds, and sea mammals. The remains  
of polar bear, ring seal, and beluga  
were also found here, indicating that  
the ancient mid-water ice edge of the  
Bering Sea may have bordered  
Unalaska Island.



Archaeological excavations on this  
site uncovered more than 10,000  
artifacts and the remains of stone  
lined semi-subterranean houses.  
Artifacts from this site are stored  
and displayed at the Museum of  
the Aleutians.













# FORCED TO LEAVE: 22 JULY 1942

"[Unsettled] constant of a realization... of displaced history... brought by people of a nationality other than their. I would like to share and... the entire view."

Phonetic Name: [Name]



Ushishir Island, Kamchatka Peninsula, 1942. The town is shown in the foreground, with the sea and mountains in the background.

Look south there where you can see... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"The [Ushishir] was part of... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."

A CITY UNDER SIEGE... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...



A group of people, possibly a family, standing together.

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"At no time... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"The [Ushishir] was the first... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."



A group of people, including children, standing outdoors.

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"At no time... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...



A person, possibly a child, standing.

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"At no time... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...



A person, possibly a child, standing.

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"At no time... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...



A person, possibly a child, standing.

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

The Ushishir... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...

"At no time... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village..."

...and... the island of Ushishir. Let us say it is a village... the island of Ushishir. Let us say it is a village...





# THE ALASKA NATIVE SERVICE HOSPITAL



October 1943, the location of the Coast Guard Auxiliary, a hospital hospital in Unalakleet. The structure shown is the present site of the City of Unalakleet, Alaska. The Alaska Native Service Hospital, completed in 1943, is a two-story wood frame structure, measuring roughly 100 feet by 100 feet. The building stands on a small peninsula with a view of the harbor. Photo courtesy: Alaska Native Service Hospital.

The winter of 1975, public service nurse Virginia H. Riley serves nurses at the Alaska Native Service Hospital in Unalakleet. It is a "volunteer" measuring roughly 100 feet by 100 feet. Furnishings are sparse—a single toilet, an occasional chair, a small library table and a wooden dresser. Riley and two other "volunteers" manage the hospital, kitchen, living and dining areas. The hospital is a main house, and there is a small light tower on a hillside across the bay. After hours, the nurses from Colorado sleep in tents with their wives and children in a two-story two-bedroom government house nearby. Together with the nursing staff and local medical attention, Central is responsible for the physical care of the Native people of the entire Aleutian Chain. For this purpose the hospital provides twelve beds.

*"T.B. was had here, tuberculosis. People died right and left. They didn't treat it. They didn't have no cure it."*  
Henry Swanson, Native Unalakleet Resident

Since the mid-1700s, outsiders have brought to the Aleutians what were later terms of infectious disease for which the original inhabitants, the Unalags, have no immunity. Within forty-five years after European contact, epidemics, wars, and starvation reduce a population once estimated at 70,000 to a few thousand persons at best.

Between 1835 and 1840, smallpox claims forty percent of those who remain. Survivors of the "pox" bear the deep facial scars of the plague. Children are left blind, their faculties impaired.

In 1904, "The Great Sickness," a virulent exanthem of its, measles, and measles strikes Alaska. Entire villages are annihilated, the dead left where they lie. In the Aleutians, the epidemic takes one quarter to one third of the Unalags. In 1919, gold workers on strike in Nome bring Spanish influenza to Unalakleet. During days of gloom, sunny weather—calm, quiet days with not even a whisper of wind—four Native Unalakleet die.

And always, underneath these few haunting epidemics, lies tuberculosis, "consumption," the "White Disease." Tuberculosis can smolder in the afflicted for months, sometimes years. Not only does it attack the lungs, liquefying the tissue, but it damages organs, bones, and brain. In March 1934, it is estimated 55.5 percent of all Native deaths in Alaska are linked to pulmonary T.B. For the Unalags, a people on the verge of extinction, it is the single greatest threat to their survival.

At Unalakleet there are no means to build a sanatorium, and the tuberculosis share hospital space with other patients. Beginning 1941, on the cusp of World War II, there is no government physician at Unalakleet to attend to them.

*"The [Unalags] were the first in Alaska of its indigenous people... to sustain new diseases."*  
Phonon M. Tinkoff, Chairman of the Board  
Aleutian/Unalut Health Association, Inc., F41101



October 1943, the location of the Coast Guard Auxiliary, a hospital hospital in Unalakleet. The structure shown is the present site of the City of Unalakleet, Alaska. The Alaska Native Service Hospital, completed in 1943, is a two-story wood frame structure, measuring roughly 100 feet by 100 feet. The building stands on a small peninsula with a view of the harbor. Photo courtesy: Alaska Native Service Hospital.

**"NO JUSTIFY BOMBING"**  
Unalakleet Mayor John Fletcher

For six days a storm rages over the City of Unalakleet. Early morning, 3 June 1942, the first winds, clear enough to look a mile from here, suddenly abort. The clouds lift, and a dead calm settles over Unalakleet and Amaknak islands. Roughly 6:00 a.m., 3 June, Unalakleet City Mayor John Fletcher and his wife awake to the sound of aircraft fire. Unalakleet they awake for they see three north moving aircraft out across the gray sky. Both believe the planes are American. "His dog," Mrs. Fletcher cries, "were to open... our lighters!"

At the west end of the city, Ward Amotok Martha Tinkoff is on duty at the Native Hospital. She hears what she believes are the engine of the mail plane taking off on its run to Kodiak. Martha Tinkoff looks north across Gaiak Bay to Amaknak Island, an military installation with the float plane ramp.

Mayor Fletcher can now make out the red circle of the rising sun matching the airplanes overhead. There are out US aircraft, but Japanese fighter planes, incredibly fast and agile—like no plane he has ever seen. The fighters return to their base camp. Through the open central doors, John Fletcher sees a formation of "one very large [Japanese] bombers" headed northwest, and "a moment later from the southwest... three more!" Bombs begin to fall on Amaknak Island—on its almost packed Jerry barracks and Navy radio station.

Martha Tinkoff watches Japanese fighter planes swirl the air tank farm on Amaknak, then towards the hospital. Hospital patient Pauline "Polly" Kudlak has been brought from the village of Kakhya only days before. Polly can hear but not see the aircraft. Patches cover her mangled eyes. Young and pregnant, Polly repeatedly lifts to the covers until a nurse strikes her eye over Polly's head. Nicholas S. Lekanoff is in hospital as well, visiting his little brother Lasse. Lasse is suffering from late stage tuberculosis and "... is all hooked up." Nicholas hears the air raid siren and wishes to stay with his brother, but the staff "... kikkly him out..."

Lasse, Polly, and Larry Shatkinoff are three of the thirteen patients in the hospital. In accordance with evacuation plans, Ward Amotok Martha Tinkoff and staff hurry them to the hospital's cement basement.

Japanese fighter planes sweep over the city of Unalakleet, raking houses and the Church of the Holy Ascension of Christ with machine gun fire. The citizens of Unalakleet take cover in an air raid shelter and dugouts that peek the trees. The fighter planes fly so low and low, the pilot's face can be seen behind their canopies. Mayor Fletcher comments: "The [Japanese] showed rather great courage in coming to close, as they have absolutely no regard for their lives, whatsoever."

*Ward Amotok Martha Tinkoff  
June 4, 1942  
Unalakleet, Alaska.*



East elevation of the Alaska Native Service Hospital damaged by Japanese bombs June 4, 1942. Bombardment and fatalities upon the attack on the hospital were estimated. It brought the hospital still Unalakleet. During the battle being over Amaknak Island, the island's radio station had been abandoned for above the City of Unalakleet. The post produced the search to remain unscathed and unscathed. Photo courtesy: MCHS.

**"Everyone had built an air raid shelter in his yard."**  
Mrs. James Parsons

The attack came as no surprise. On 30 May 1942, the U.S. Army had ordered Mayor Fletcher to close all "Japanese establishments" in Unalakleet City. On the night of 3 June he was told of "a Japanese" carrier within 400 miles of Unalakleet Island. With this information, Fletcher was to make ready the civilian defense of his town. "It may seem odd," the Mayor would later write, "that we should have been caught asleep in bed in the time the attack came. We ignored the bomb warnings because we had many alerts before... practice alerts. We became indifferent to the danger ahead."

Ward Amotok Martha Tinkoff would also write of this day—but clipped, precise language like that found on a patient's medical chart: "Although the boilers proved buildings, they did not touch a single person and they caused no damage. No bombs of any kind were dropped on Unalakleet; no fires were started." In this short passage, Amotok Tinkoff describes the first foreign attack on a city of the United States since the War of 1812.

The seven Japanese tendril-pods of Amaknak and Unalakleet islands was poor, consisting only of a twenty-year old photograph and incomplete shoreline map. Military planners were certain of only three structures: the fuel tanks and Navy radio station on Amaknak Island, and the Native Hospital on Unalakleet. With the aid of aerial photographs taken during the 3 June raid, Japanese strategists pinpoint targets for a second attack.

**"[The Japanese] 'managed, believe it or not, to hit the only hospital in 500 miles.'"**

Keith Wheeler, *Alaskan Dawn*, 22 July 1942

5:40 a.m. 4 June, Ward Amotok Martha Tinkoff transfers all patients from the Native hospital to dugouts as ordered.

5:55 a.m. Japanese "Wal" bombers drop through holes in the 6,000 foot cloud cover over Amaknak Island. They dive towards their assigned targets, bombs slung under their bellies. The oil depot is struck, 37,000 barrels of fuel erupting into flame. Near the S.S. Northwesters, the aged steamship beached near the Dutch Harbor dock. A bomb striking the vessel's forward stack and it too explodes into fire. Clouds of boiling smoke climb into the sky and it appears as if Amaknak Island is burning.

Over Unalakleet Island, a lone bomber dives toward the city. Amotok Tinkoff positions open fire, and the plane pulls up, bombs released. The missile strikes ground east of the Native Hospital. The convulsive blast rips one end off the building, sends walls and roof. Like a child's doll house, the interior can now be seen—the nurses' rooms, furniture and metal beds, all their belongings thrown about as if in a rage.

**"It was a terrific explosion."**  
Ward Amotok Martha Tinkoff



East elevation of the Alaska Native Service Hospital damaged by Japanese bombs June 4, 1942. Bombardment and fatalities upon the attack on the hospital were estimated. It brought the hospital still Unalakleet. During the battle being over Amaknak Island, the island's radio station had been abandoned for above the City of Unalakleet. The post produced the search to remain unscathed and unscathed. Photo courtesy: MCHS.

In the hospital basement are Miss Margaret Quinn, Head Nurse, and the latter gathering supplies. The blast punches a large hole through the cement foundation, but Miss Quinn and the latter, unharmed, rush to a dugout.

Japanese fighter planes again invade the City of Unalakleet. "... women and children were machine-gunned" writes Martha Tinkoff. "... planes flew over them scattering bullets but by some miracle they missed..."

Two young patients, Lasse Lekanoff (suffering from tuberculosis) and Larry Shatkinoff (by hospital for tuberculosis), have their mothers take to the dugouts. The mothers must also take children out of the hospital. Photo courtesy: MCHS.

No one at the Native Hospital nor the City of Unalakleet is harmed during this second attack either by bullets or bomb blast. After the all clear signal, men of the town—R.B. Patterson, Blackie Popp, Ivan Balzinger and Clarence Sauter—transport patients in trucks to the Minto roller skating rink. From there they are divided among Native households for care. At least four of the displaced patients are tubercular children. One is transported south to a sanatorium in Tacoma. Within weeks of the attack, the boy Lasse Lekanoff passes away in Unalakleet. The other tubercular children, together with Native citizens of Unalakleet, will be removed to the internment camp at Bunker Hill in Alaska. Illness will follow the people there.



**EPILOGUE: The Native Hospital and beyond, not as a health facility for the Aleutian Islands. In 1950, the building catches fire. The department responds, but no water. Like a part splintered, it settles with its gutters down, to the ground.**

**NOTE: Today all that remains of the Native Service Hospital is the ruins. The property is presently owned by the State of Alaska.**

UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Qawalangim Tanangin Fox Islands

ISLANDS  
Umnax, Umnagiġ, Umnax, Umnak  
Agasaaguġ Tanaxsidaaguġ, Bogoslof  
Nawan Alaxsxa, Unalaska  
Sidaanaġ, Sedanka  
Unalga, Unalga  
Akutanaġ, Akutan  
Akungan, Akun

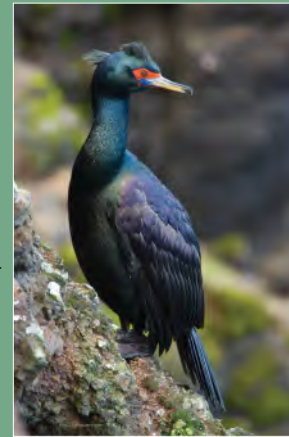


*Anim kangaa, lupine, Lupinus nootkatensis.* Photo courtesy Suzi Golodoff

## PLANTS OF THE ALEUTIANS

The Aleutian Islands encompass a unique floral region unlike any other on our planet. Although windswept and treeless, our maritime climate moderates temperatures, and there is no permafrost in the Aleutians. Plant life, especially along the coast, is especially lush. Our nearly constant winds, and the resulting patterns of snow accumulation, regulate the boundaries of our plant communities.

Migrating into the islands from Asia and North America, species slowly expanded their ranges into both ends of the chain. The central islands still show a gap in the distribution of many circumpolar and arctic alpine species.



## BIRDS

The Aleutians are known throughout the world for their teeming bird populations. Remote and originally free from terrestrial predators, the islands are nesting habitat for millions of seabirds.

Left: *Ingatuġ, red-faced cormorant, Phalacrocorax urile*, a Beringian endemic, is a resident throughout the Aleutians.

Below: *Chiluġ, Lapland longspurs, Calcurius lapponicus*, nest abundantly throughout the Aleutians.

Photos courtesy Suzi Golodoff



## STORIES OF OUR ANCESTORS



John Hall (1739-1797) and Samuel Middiman (1751-1831) after a drawing by John Webber (1751-1793), *Natives of Oonalashka and Their Habitations*, plate 57 from James Cook, *A Voyage to the Pacific Ocean* (London: Nicholl and Cadell, 1784). Courtesy Graphic Arts Collection GC 106, Firestone Library, Princeton University

**Mushkal'** was a teenager when his uncle surrendered him as a security hostage to the Russians at Umnak Island in 1763. He was baptized as Ivan Glotov. He eventually became chief at Nikolski and a Paramount Chief over many villages. He was instrumental in sending a delegation to the Czar in 1796 to protest Russian abuses. He built the first Orthodox chapel in the Fox Islands in 1806 at Nikolski.

**Kagaluġ** was a young man when he met Captain James Cook in 1778 on Unalaska Island. He was bilingual in Unangam tunuu and Russian and assisted the Billings Expedition in 1791 in compiling the first extensive census in the islands. As Yelisey Pupyshchev, he was a chief of Imagna, near Morris Cove. He traveled to Russia in 1796 to present a petition to the czar. He died in Moscow.

**Ivan Pan'kov**, a bilingual chief of Akun in the early 19th century, collaborated with Father Veniaminov in designing an orthography for Unangam tunuu and in translating Russian church texts. Akun is in the Krenitzin Islands, east of Unalaska. It was among the most populated clusters of islands in the 18th and 19th centuries.



Unangam tunuu is an ancient language and not a direct translation of the English or Russian names.

Made Possible by the Institute of Museum and Library Services and is a collaboration between the Museum of the Aleutians, Quinaltaha Corporation, City of Unalaska, Qawalangin Tribe, the Akut Community of St. Paul Tribal Government, Akutan Pribilof Islands Association, U.S. Fish and Wildlife Service, Alaska Volcano Observatory, and National Oceanic and Atmospheric Administration.



UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Akuuġun/Uniġun Tanangin Islands of Four Mountains

ISLANDS  
Amuux̄taġ Amukta  
Chugaaġinaġ Chigulak  
Yunaġksa Yunaska  
Chġulaġ Herbert  
Kigalġa, Qigalġan Carlisle  
Chuginadaġ and Tanaġ Angunaġ chuginadak  
Qagaamila Kagamil  
Ulaġa Uliaga



## BIRTHPLACE OF THE UNANGAĀ PEOPLE

Oral traditions indicate that Unangaġ have lived in the region since the beginning of time, and that Tanaġ Angunaġ (Big Island) in the Islands of Four Mountains is where, "according to Aleut traditions... their ancestors originated."

(Veniaminov, 1984)

## BIRDS

Common and thick-billed murre nest in colonies of up to tens of thousands of birds. They incubate their single egg on top of their feet, perched on the sides of sheer cliffs. Not quite able to fly yet, chicks jump from the cliffs and glide (or tumble) down to begin their lives at sea after only three weeks.

## THE LAND

The Islands of Four Mountains are a group of six volcanoes on five islands. Chuginadaġ (Mount Cleveland) is the tallest and most active of these volcanoes and one of the most active in North America. Qigalġan (Carlisle) and Qagaamila (Kagamil) have historic reports of activity. Tana was active thousands of years ago in the mid-early Holocene. Ulaġa (Uliaga) hasn't erupted in more than 10,000 years.

The orientation and proximity as well as geochemical and geologic composition of the islands indicates that they may be part of the same central caldera system, with much hidden below the



The Islands of Four Mountains seen from the north. From left to right, Tanaġ Angunaġ, Chuginadaġ, Kigalġa/Qigalġan, Chġulaġ, Qagaamila and Ulaġa Tana, Cleveland, Carlisle, and Herbert. Kagamil and Uliaga are out of frame to the left (east). Photo courtesy Dave Clum, 138841

ocean's surface to connect the Islands as part of a large, previously unrecognized caldera.



Far left: *Sakitaġ, Ulungtaġ*, thick-billed murre colony, *Uria lomvia*. Photo by Nathaniel Wilder, courtesy U.S. Fish and Wildlife Service

Left: *Saguyaġ*, short-tailed shearwaters, *Ardeña tenuirostris*, feed among *alamax*, humpback whales, *Megaptera novaeangliae*, in the churning passes between islands. Flocks of a million birds have been recorded in the eastern Aleutians. Nesting in Australia, these seabirds make epic annual migrations into the Bering Sea. Photo courtesy Suzi Golodoff



Unangam tunuu is an ancient language and not a direct translation of the English or Russian names.

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UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Niiġuġim Tanangis Andreanof Islands

## STORIES OF OUR ANCESTORS

Atka Village has been key to the preservation of Unangam tunuu as both a spoken and written language. Iakov Netsvetov and Lavrenti Salamatov did pioneering translations in the 19th century. Netsvetov was the first Alaska Native priest and served Atka from 1829 to 1844. He was glorified (canonized) as St. Jacob of Alaska in 1994. In the 20th century, William Dirks, Senior and Junior, and Cedor Snigaroff provided invaluable texts. They were followed by Sally Snigaroff Swetozof, Lydia Dirks, and others in the 1970s. Dr. Moses Dirks of Atka is the foremost linguist in Unangam tunuu.

### QANA-TANAĀ KUUĠANAA NIIĠUĠIS UKUĀTAQAA

Adang hadan tunumkaasazakungis tutazaqang. Kadim hadan anġaġinangis, akan naa-hadagaan angil, Aluuġinas hadagaan angil, hingan Atkam angtan chuguuġix aaliisii, Chuguuġix Uġaluġ hiilaġadaa, ilan chalaxus sakang alaġum ilan quganaġ qawam chaa sanaa kuuġal aġtakuġ, ukuxġalaan tixidix quyunax akuġtxidigaan, hingan qilaġ hingan tanġix sanahliaqan sanal hulal aġtanaġ.

Ukul aqadaamdix wan hinas hiilaġtadas:

“Qana tanaġ al sakaax kuuġal sakamaġ saka?”

Hingayaa akuġ Qana-Tanaġ hiilaġtadaġ. (Kasakas Kasatochi ngaan asaasaqaa.)

Courtesy Larry Dirks, Sr.

### How Qana-Tanaġ appears Atkans saw it

I use to hear my father talk about it. In the former times people came from the west, they were coming from Aluuġinas, heading to the end of Atka to Chuguuġix Aaliisii, a place called Chuuguuġix Uġaluġ they landed there in their boats they saw a rock sticking out about a size of a sea lion flipper, there they went to bed the next morning they awoke there was an island formed to its current size.

Seeing this phenomenon, this is what they said:

“What island is it that appeared from out there?”

That island is called “What Island Is That?” (The Russians named it Kasatochi)

## PLANTS

*Quungdiiġ*, purple orchid, *Dactylorhiza aristata* is found throughout the Aleutians, while the Aleutian shield fern *Polystichum aleuticum* is a species found only in the central Aleutians.



Above: photo courtesy Mike Boylan, courtesy U.S. Fish and Wildlife Service; below: photo courtesy Suzi Golodoff



- ### ISLANDS
- Anangusiġ Gareloi
  - Tanaġax Tanaga
  - Kanaga Kanaga
  - Adaax Adak
  - Qigalaxsiġ Kagalaska
  - Sitxinaġ Great Sitkin
  - Qanan Tanaġ Kasatochi
  - Atkaġ Atka
  - Amlax, Amlagiġ Amlia
  - Saġuugamax Segum

## BIRDS

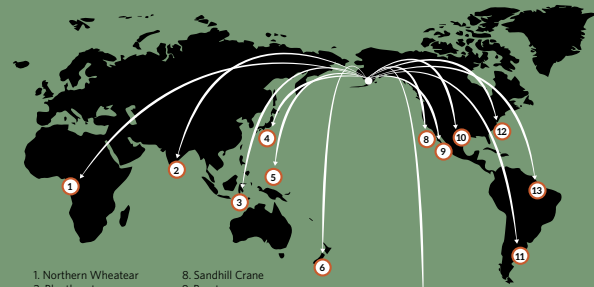
During spring and fall, the Aleutians are an essential ‘fuel stop’ for long-distance migrants like shorebirds, navigating their epic flyways between the hemispheres.

Bar-tailed godwits are the world’s longest distance, non-stop migrants. Between their Arctic nesting grounds and New Zealand where they winter, they fly approximately 7,500 miles in a little over a week.

*Chuygiġ*, bar-tailed godwits, *Limosa lapponica*, on Atka in early May. Note the leg bands on some birds. Photo courtesy Suzi Golodoff



## FLYWAY MAP



- |                           |  |
|---------------------------|--|
| 1. Northern Wheatear      | 8. Sandhill Crane                                    |
| 2. Bluethroat             | 9. Brant   |
| 3. Eastern Yellow Wagtail | 10. Smith’s Longspur                                 |
| 4. Dunlin                 | 11. American Golden Plover                           |
| 5. Wandering Tattler      | 12. Tundra Swan                                      |
| 6. Bar-Tailed Godwit      | 13. Semipalmated Sandpiper                           |
| 7. Arctic Tern            | Information courtesy Arctic National Wildlife Refuge |



Unangam tunuu is an ancient language and not a direct translation of the English or Russian names.

Made Possible by the Institute of Museum and Library Services and in collaboration between the Museum of the Aleutians, Quinaltaka Corporation, City of Unalaska, Qawalangin Tribe, the Aleut Community of St. Paul Tribal Government, Aleutian Pribilof Islands Association, U.S. Fish and Wildlife Service, Alaska Volcano Observatory, and National Oceanic and Atmospheric Administration.



UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Qaxum Tanangis Rat Islands

## MAPPING THE ALEUTIANS

How did the Rat Islands get their name and why does Unalaska Island have a “Beaver Inlet” when there are no beavers in the Aleutians? Where did the “Dutch” in “Dutch Harbor” come from? Why is this city called *Unalaska*?

Early voyagers consulted UnangaĀ for their detailed knowledge. The most extensive Russian maps of Alaska, from the 1850s, drew on surveys conducted by UnangaĀ navigators and were engraved by UnangaĀ and AlutiĀq individuals. While place names in Unangam tunuu are numerous, published maps usually carried names selected by Russian or American seamen and surveyors. Maps are continually updated, especially along a chain of volcanic islands. Surveys rely on information from local people, fishermen, sailors, and satellite images. Today, official names are set by the U.S. Board on Geographic Names to ensure uniformity. But place names change, and this board has a process for doing just that.



## QUXSUĀTAXĀ (STELLER SEA COWS)

Steller's sea cow (*Hydrodamalis gigas*) are extinct, but they once lived in the Aleutian chain. Remains have been discovered on several islands, including Amchitka and the Commander Islands. These large and slow-moving mammals (some reaching lengths of 30 feet) feasted on kelp and are related to manatees and dugongs. The remains on Amchitka were found in ancient deposits (roughly 125,000 years old) that also included the remains of whale, walrus and Steller sea lion.

## INVASIVE SPECIES

Arriving after a 1780s Japanese ship wreck, rats became a prominent resident of HawadaĀ island. With almost no predators and seabird eggs as a staple food source, the population quickly grew. This rapid growth damaged the local ecosystem, destroyed seabird populations and disrupted the region's food chains. The population was strong enough that European explorers and government maps referred to HawadaĀ as “Rat Island” until 2012. The name changed after a successful rat removal program in 2008 and 2009, using poisoned rat pellets. Despite some damage to other animals, the program successfully removed the rats and allowed the bird populations to recover.

Humans primarily introduced fox in the mid-1900s for commercial harvest. Isolated islands were seeded with fox, who were then, in subsequent years, harvested for furs. This system resulted in devastating results for seabird populations, whose eggs became a staple food source for the fox. In 1949, the federal government began removing fox from the Aleutian Islands, a successful program resulting in removal of invasive fox from over 40 islands.



## UNYAĀ (SEMISOPOCHNOI ISLAND)

Semisopchnoi is the Russian word for Island of Seven Hills. UnyaĀ is the largest of the young volcanic islands in the Western Aleutians. It is composed of a variety of volcanic landforms, based around a large central caldera. This caldera formed early in postglacial (Holocene) time and was followed by basaltic through dacitic eruptions that have formed several intracaldera and extracaldera vents and cones.

Semisopchnoi is situated at the intersection of the Aleutian volcanic arc and the submarine Bowers Ridge.

**LEFT: Major eruptive vents and geographic features of Semisopchnoi Island.** Image courtesy Alaska Volcano Observatory

**ISLANDS**  
Qisxa Kiska  
ChigulaĀ Segula  
HawadaĀ HawadaĀ (Rat)  
SitignaĀ Little Sitkin  
Amchitka Amchitka  
UnyaĀ Semisopchnoi



**Unquchiing, Arctic fox, blue phase, *Vulpes lagopus*.**  
Photo by Ian Shive, courtesy Alaska Maritime National Wildlife Refuge



Courtesy Museum of the Aleutians, 201408081

## FOX TRAPPING

For thousands of years, UnangaĀ relied upon natural resources for sustenance and clothing. UnangaĀ historically made ingenious devices to catch fur mammals. Following the introduction of foxes to the island, these included fox traps that evolved over time. Bill Tcheripanoff from Akutan made fox traps from wood, sinew, and bone. He carved a hollow tube from wood and attached a flat arm to an opening on the side. With sinew and twist blocks, he attached a rotating arm into which he drilled ivory spikes. A trip wire was attached and the device was anchored near a fox path. Once sprung, the tripwire released the tightly wound arm driving the spikes into the animal. Fox trapping cabins were built up and down the Aleutian Islands.



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UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# SasignaĀ/Saskinam Tanamlan

## Near Islands

### ISLANDS

AtuĀ, Atan Attu  
 AngatuĀ Agattu  
 IngaliĀĀ Alaidi  
 AvrayĀ Nizki  
 SamiyĀ Shemya



From left: Basket weaver on Attu, Maggie Prokopeuff.

Photo courtesy UAF1990-3-2, Murie Family Papers, Alaska and Polar Regions Collections and Archives, University of Alaska Fairbanks

#### Attu grass basket

Photo courtesy Museum of the Aleutians, 2008.002.001

#### Rye grass used for basketry

Photo courtesy Suzi Golodoff



### BIRDS OF THE ALEUTIANS

The Aleutians are known throughout the world for their teeming bird populations. Remote and originally free from terrestrial predators, the islands are nesting habitat for millions of seabirds.

The emperor goose is a Beringian endemic. Nesting in western Alaska and the Siberian Subarctic, the entire world population winters in the Aleutians and along the Alaska Peninsula as far east as Kodiak.

*AtrqrutukaĀ*, Rock Ptarmigan, *Lagopus muta*, are found throughout the Aleutians. Only Unimak Island, near the Alaska mainland, also has Willow Ptarmigan. Rock Ptarmigan's broader range extends from northern Eurasia into northern North America. Four Beringian subspecies are recognized, separated by island groups. The Everman's Rock Ptarmigan, of Attu and Agattu, have distinctly dark, nearly black, breeding plumage. Ptarmigan on Agattu were decimated by foxes, but successfully reestablished by USFWS with birds transported from Attu.



*Iġiliġ*, the emperor goose, *Anser canagicus*. In the Attuan dialect of Unangam Tunuu, the word for Emperor goose is *Iġiliġ*, but is better known as *Qagmangix* in the Atkan (A) dialect, and *Qangaangix* in the Eastern (E) dialect. *AġdiikaĀ* (E,A), Rock ptarmigan, or *AtqatukaĀ* in the Attu dialect. Photos courtesy Suzi Golodoff



### PLANTS

These plant species with western origins are found throughout the Aleutian Islands. Chocolate Lily and Crowberries have edible parts, and the latter is the only berry in the western Aleutians. The berries could be stored and preserved, either in seal oil or frozen in water barrels. The dense, springy crowberry plant material was also used for tinder and mattress material.



Clockwise from left: *Rhododendron camtschaticum*. Kamchatka rhododendron. *SaranaĀ*, Kamchatka lily or rice root lily, *Fritillaria camtschaticensis*. *KigyaĀ*, crowberry, mossberry, *Empetrum nigrum* L. Also *qaayum qaxchikluĀ* (Eastern); *aangsux*, *kingdaĀ* (Atkan); *kigyaĀ* (Attuan).

### STORIES OF OUR ANCESTORS

Vassa "Maggie" Prokopeuff (c. 1872-1937) of Attu was a master weaver who was instrumental in developing the Attu basket. Renowned for her energy and sense of humor, she had students from Attu, Atka, Nikolski, and Unalaska.

Woven from beach grass, UnangaĀ baskets have no equal in the world for fineness of weave and delicacy of design. Basketry is the most enduring of all UnangaĀ arts. While deeply traditional, it has evolved to meet the needs of the times.



Unangam tunuu is an ancient language and not a direct translation of the English or Russian names. Made possible by the Institute of Museum and Library Services and is a collaboration between the Museum of the Aleutians, Quinaltka Corporation, City of Unalaska, Quinaltka Tribe, the Aleut Community of St. Paul Tribal Government, Aleutian Pribilof Islands Association, U.S. Fish and Wildlife Service, Alaska Volcano Observatory, and National Oceanic and Atmospheric Administration.



UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Unaagin Tanangin Pribilof Islands

ISLANDS  
TanaĀ AmiĀ St. Paul  
AnġaaxchaluĀ St. George  
Qawam Nuġii Sea Lion Rock  
AduĀ Otter Island  
TanaadaĀ Walrus Island



Map courtesy National Park Service

## BERING LAND BRIDGE

In the past, during the Pleistocene Epoch, much of the northern latitudes was covered in glacial ice. Much of the planet's ocean water was frozen in glaciers leading to sea levels as much as 300 feet lower than today.

In the Bering Sea, lowered sea levels exposed a broad expanse of land connecting the Asian and North American continents. This landmass is called the Bering Land Bridge because it served as a path of migration for many species. Plant and animal communities from both continents inhabited this landmass. The Bering Land Bridge was free of glacial ice and would have provided close to 1 million square miles of steppe and shrub tundra similar to the arctic coastal plains of the present. Though it forms the floor of a portion of the Bering Sea today, the Bering Land Bridge was exposed for thousands of years with vast inland areas and a southern coastline rich in resources utilized by hunter-gatherers. Archaeology of the adjacent portions of Alaska and Siberia shows that this was an important pathway for the human populations who initially settled in the Americas.

## MIGRATIONS

The Pribilof Islands host remarkable migrations of sea mammals and birds. Demonstrating an amazing endurance of life, the spring migrations see hundreds of thousands of northern fur seals (*Callorhinus ursinus*) return to breed. Thousands of shorebirds and waterfowl make their way through seasonally, spring and fall. Ancient migrations of land animals reflect a time when the islands were connected to both the Asian and American continents—via the Bering Land Bridge—which brought mammoths to the islands.

## MAMMOTHS

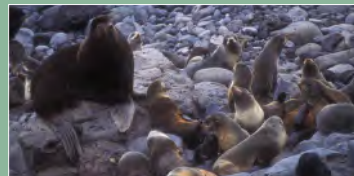
At the height of the last ice age (~21,000 years ago), sea levels were much lower, and St. Paul and St. George were part of the Bering Land Bridge connecting Asia to Alaska. Many different types of plants and animals, and even the first Alaskans, crossed between Asia and Alaska. After the last ice age, the climate warmed and sea levels rose. 13,000 years ago, the Pribilofs were cut off from the mainland by the rising sea level, which also isolated a population of mammoths. They survived and reproduced on St. Paul up until about 5,600 years ago. We know this because some mammoth remains were found in a cave on the island and were dated to this time.



Mammoth tooth found on St. Paul Island, dated to 5,600 years ago. Photo courtesy Douglas W. Veltre

## NORTHERN FUR SEALS

Northern fur seals (IaaqudaĀ) spend much of the summer in breeding rookeries in the Pribilof, Bogoslof, Commander, Robben, and Kuril Islands, as well as two rookeries off the California coast. The Pribilof Islands support about half of the world's northern fur seal population. Fur seals spend the remainder of the year at sea in the north Pacific Ocean. UnangaĀ history is interwoven with northern fur seals, from Russian commercial fur trade to the U.S. purchase of Alaska, the end of commercial fur sealing in the 1980s and the current co-management of subsistence harvest of fur seals by NOAA Fisheries and the tribal governments of St. Paul and St. George.



## BIRDS

Nesting colonies swirl with kittiwakes, gulls and cormorants and millions of alcids; murrelets, puffins, auklets and murrelets.



QagidaĀ, horned puffin, *Fratercula corniculata*. Photo courtesy Suzi Golodoff

HlaaquadaĀ, Northern fur seal, *Callorhinus ursinus*, female and pups. Photo courtesy Paul Willman, NOAA Fisheries



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UNANGAM TANANGIN AYGAXSIX  
(WALKING THE UNANGAX ISLANDS)

# Volcanoes



Great Sitkin Volcano, 2021.  
Photo courtesy Alaska Maritime National Wildlife Refuge.



Map courtesy Alaska Volcano Observatory, 138841.

## STORIES OF OUR ANCESTORS

Spirits inhabited volcanoes. Kamgiligan lived within Makushin and had a strong desire to become human. Chuginadak Volcano was used by a woman for breathing. She eventually traveled to Akutan where she married a man who could shoot rosy finches on the wing. Before sending his two sons on a prolonged trip to Kodiak, a father on Tigalda Island removed ribs from the demons inhabiting Akutan, Makushin, and Shishaldin volcanoes and used them to fortify his sons' skin boats.

Jealousy erupted between Makushin Volcano [Ayaġin or Magusim Qiġguusii] on Unalaska and volcanoes on Umnak. They postured and shook and tossed pyrotechnics into the sky. The smaller volcanoes burst in embarrassment and were extinguished forever. Only Makushin and Rechesnoi [Ingaġinan] remained to fight. Fire and ash thickened the air and killed all the animals in the area. Finally, Rechesnoi shattered itself in a massive explosion. Makushin calmed down and now only smokes a little.

## VOLCANO MONITORING

The Alaska Volcano Observatory (AVO) monitors volcanoes across Alaska with many different methods. Makushin Volcano has seismometers to record and measure earthquakes from possible magma movement below the surface. GPS sensors also measure any deformation of the volcano that may indicate rising pressure from below. Satellite data can look for heat changes in the crater or other vents, as well as visible changes to the surface, the presence of certain gasses, and deformation. Infrasonic sensors can listen for very low frequency sounds given off by eruptions, and lightning can be detected in ash clouds. AVO has also installed webcams to keep an eye on the volcano's activity. Eyewitness reports from community members, ships, and pilots all help watch as well.



Jim Vallance (USGS) describes geologically young ash and tephra deposits from Makushin in an outcrop alongside the runway at Dutch Harbor Unalaska, July 2015.  
Photo courtesy Jess Larsen, Alaska Volcano Observatory / University of Alaska Fairbanks Geophysical Institute



Makushin in 2019. Photo courtesy Malcolm Herstand, Alaska Volcano Observatory

## AYAĠIN, MAKUSHIN

There are more than 50 volcanoes in Alaska with recorded activity since about 1760. Makushin Volcano is part of the Aleutian Island volcanic arc, along the northern portion of the Pacific "Ring of Fire." Makushin has had at least ten reported eruptions since 1769, ranging from small ash and steam plumes to a "most violent eruption with great clouds...rising from its crater" (Anchorage Daily Times, 1938). Geologic fieldwork and rock dating puts most of the Makushin stratovolcano less than one million years old, and major lava flows occurred during the Holocene Epoch, within the last 11,700 years. Three major eruptions have deposited ash in the Unalaska area in the last 10,000 years. The Driftwood Pumice layer erupted most recently, about 8,200 years ago. The Nateekin eruption was about 8,700 years ago, and deposited 20 cm of ash in the Unalaska area. The largest was the Makushin crater-forming eruption, or "CFE", about 9,000 years ago. This massive event sent pyroclastic flows of hot gas and volcanic material down the Makushin Valley, leaving deposits nearly 100 meters (330 feet) thick.

Sections of the rigid upper layer of the earth (lithosphere) collide as the tectonic plates move around the planet. The dense and thinner oceanic crust subducts beneath the lighter and thicker continental crust. Soft sediments are scraped off and form the accretionary wedge at the plate margins.

As the lithospheric plate subducts, increasing heat and pressure cause magma formation, which being less dense than the surrounding rock, rises through the overlying continental crust, forming a chain of volcanoes along plate boundary.

The boundary between the more rigid crust and the mantle is called the Moho and is marked by chemical changes and differences in seismic wave velocities.



Image courtesy Alaska Volcano Observatory



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Made Possible by the Institute of Museum and Library Services and is a collaboration between the Museum of the Aleutians, Quwalangin Corporation, City of Unalaska, Qawalangin Tribe, the Akut Community of St. Paul Tribal Government, Akutan Pribilof Islands Association, U.S. Fish and Wildlife Service, Alaska Volcano Observatory, and National Oceanic and Atmospheric Administration.



UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Alaska Maritime National Wildlife Refuge

## THOUSANDS OF ISLANDS, MILLIONS OF BIRDS

The magical Aleutian Islands comprise part of the vast Alaska Maritime National Wildlife Refuge, which stretches across much of coastal Alaska. Alaska Native people have thrived on these lands for thousands of years, and continue to steward the lands today, often in partnership with the federal government. With special refuge designations that began with President Theodore Roosevelt, the Aleutian Islands have long been recognized as globally important breeding areas for seabirds and marine mammals. Today, the United States Fish and Wildlife Service works with others to protect these precious public lands to benefit people and wildlife for generations to come.

### SAN, BIRDS

The Aleutians are famously known for their teeming bird populations. The thousand miles of remote and rugged islands, originally free of terrestrial predators, provide nesting habitat for millions of seabirds. The air above these colonies swirls with murre, auklets, puffins, kittiwakes, gulls and cormorants, including the red-faced cormorant, a Beringian endemic. Hundreds of thousands of short-tailed shearwaters feed among humpback whales in the passes. Across our treeless landscape, numerous songbird species hide their nests in the surrounding tundra.

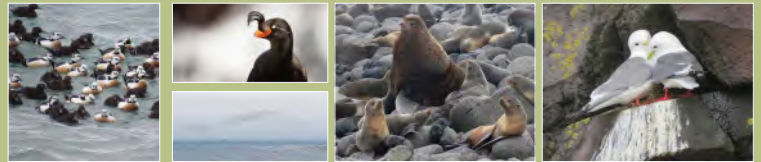
During winter, the ice-free coastal waters shelter tremendous flocks of waterfowl and sea ducks, including harlequins, Steller's eiders, long-tailed ducks, scoters, scaups, mergansers, and the emperor goose, whose entire world population winters here in the Aleutians and along the Alaska Peninsula. During spring and fall, the Aleutians are an essential 'fuel stop' for long distance migrants like shorebirds, navigating their epic flyways between the hemispheres.

The presence and annual migrations of bird species have defined the seasons for UnangaĀ people for thousands of years. Many birds were depended upon for meat and eggs, and ingenious use was developed for traditional clothing, essential tools and ornamentation. The wing bones of albatross were skillfully grooved, split and sharpened into awls and very fine needles. Bird skins were sewn into parkas. Puffin beaks were made into dance rattles and sewn along the hems of garments.

Bird populations are just as essential today as they've ever been. Massive seabird die-offs in recent years, caused by warming sea temperatures, are of deep concern. Our commercial fishing economy depends entirely on a healthy Bering Sea ecosystem, and the continuous cycling of nutrients that millions of seabirds provide is essential and irreplaceable.



Photos courtesy U.S. Fish and Wildlife Service.



Unangam tanuun is an ancient language and not a direct translation of the English or Russian names.

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## UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# Nanadan Margaret Bay

### MARGARET BAY

The Margaret Bay archaeological site exhibits one of the longest records of human habitation in Unalaska Bay and in the eastern Aleutian Islands. Beginning as early as 6,000 years ago UnangaĀ lived in semi-subterranean homes (Ulan) on the hill top and used this location as a base for sea mammal hunting, fishing, and reef-foraging. During the exceptionally cold period known as the Neoglacial between 4,700 - 2,500 years ago, ulaa were constructed with stone-lined walls to conserve heat. Artifacts found here suggest that trade networks extended as far as the Alaska mainland and that UnangaĀ may have had regular interactions with people living on the Alaska Peninsula. Watercraft would have been essential for life in the eastern Aleutians and UnangaĀ are known for their sophisticated skin and frame kayaks capable of making long journeys over the rough seas of the Bering Sea and North Pacific.

### CHAGAĀ, OBSIDIAN

Obsidian, or volcanic glass, was a preferred material for stone tools in the eastern Aleutian Islands and people traveled great distances to obtain it. The chemistry of volcanic magma and lavas are often unique, and therefore, obsidian flows possess a chemical signature that can be matched to the volcano from which it was formed. Using X-Ray Fluorescence obsidian from Margaret Bay has been traced to sources at Okmok volcano approximately 70 miles west and to Akutan volcano 25 miles to the east. One obsidian artifact was sourced to an outcrop in the Wrangle Mountains on the Alaska Mainland and likely was acquired through trade.

These kadaĀ (projectile points) made of obsidian were used on the ends of harpoons or spears for hunting, probably seals and sea lions and other marine mammals, as well as for hafted knives. The small Qaxaq style point are distinct in their small size, roughly 1" long. Obsidian sourcing has revealed that most of the obsidian from this site came from Okmok volcano and Akutan volcano.

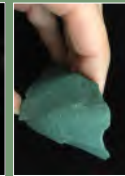
0938, 0157, 0256, 0288, 6171-Okmok, photos courtesy Museum of the Aleutians

### NEOGLACIAL AND PALEOENVIRONMENTAL RECONSTRUCTION

Between 2,500 and 4,700 years ago temperatures across southwest Alaska dropped and the region experienced what is known as the Neoglacial period—a time of pronounced cold leading to the expansion of glaciers and sea ice. Archaeological sites such as Margaret Bay serve as archives of evidence of past climates and environmental conditions. Change through time in plant or animal species indicate to scientists changes in historical ecological communities and, therefore, also in environmental factors such as temperature, sea surface temperature, and precipitation. The layers of occupation at Margaret Bay extend between 6,000 and 2,500 years ago including the time of the Neoglacial. While the majority of plant and animals remains stay consistent through time at Margaret Bay, species adapted to sea ice, such as walrus and bearded and ringed seals, were also hunted. The bones of these animals in an archaeological context provides circumstantial evidence that during the Neoglacial the seasonal sea ice pack on the Bering Sea extended significantly further south than it does today. People adapted to these colder conditions by employing new architectural styles such as stone-lined semi-subterranean houses with elaborate internal hearths.



CunilgiĀ (harpoon heads) are part of harpoons or throwing lances. These harpoons are made from the bones of a sea mammal and would have been used as the tips of spears and harpoons. 5871, 7954, 5873. Photos courtesy Museum of the Aleutians.



For thousands of years stone blades like these were used across the northern latitudes, including at Margaret Bay and other Aleutian Island sites. The tiny blades in the left of the picture were glued into grooves in bone projectile points and knives. These microblades were made by using pressure to remove them from a core (other photo); the technique creates pieces that are remarkably similar in shape and size allowing for quick repair of tools and the very efficient use of high-quality stone like the green chert pictured here.



By 3500 years ago, the deep semi-subterranean houses were now lined with stone walls and had elaborate hearth systems; multiroom houses appear as well and villages are larger. The nearby Amaknak Bridge site, occupied between 3300 and 2700 years ago also had animal remains and architectural changes indicating the presence of more extensive ice in the Bering Sea region at this time. Photo courtesy Museum of the Aleutians.



Midden from the Margaret Bay site. Midden is a term archaeologists use to refer to accumulations of animal and plant remains and discarded items from stone and bone tool manufacture. Seen here are clams, small mammals and other animal remains as well as chips of stone. Photo by Rick Knecht, courtesy Museum of the Aleutians.



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## UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# UglugaĀ Summer Bay

### ARCHAEOLOGY

The system of sand dunes surrounding Summer Bay formed approximately 3,500 years ago following a drop in relative sea level. The dune system formed on the newly exposed land and Summer Bay Lake was cut-off from the sea.



Archaeologists examine midden at UNL-208 exposed by erosion in 2016. Photo courtesy Museum of the Aleutians

Over time, Summer Bay Lake and the creek leading to the ocean became the site of a substantial salmon run. Since that time, UnangaĀ have utilized the area for summer fish camps. Judging from material excavated at two archaeological sites in these dunes, camp activities were focused on salmon fishing, bird hunting, and manufacture and repair of tools made from the bones of birds and sea mammals. The overlooks also provide excellent views of Unalaska Bay and the Bering Sea.



Community Members participate in excavations at UNL-208 in Summer Bay alongside professional archaeologists. Photos courtesy Museum of the Aleutians

### ARCHAEOLOGY OF UNANGAĀ SETTLEMENT

Across the Aleutian Chain UnangaĀ maintained a system of settlement that included large permanent village sites occupied most of the year, and seasonal "camps" utilized as a base for summer subsistence activities such as fishing or foraging for bird eggs. This settlement pattern is still used today by many UnangaĀ. Locations such as Summer Bay were likely chosen in the past to harvest the summer salmon run. At UNL-92 and UNL-208, evidence for short-term occupation, fishing, and other summertime activities dating to as much as 2,000 years ago confirms the seasonal use of this location and the long-standing pattern of settlement utilized by UnangaĀ.

### COMMUNITY ARCHAEOLOGY

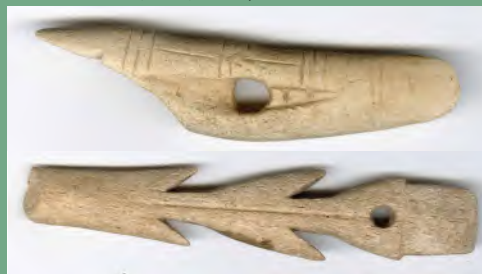
For three years (2017 - 2019) the archaeological site UNL-208 was excavated as part of the Community Archaeology Program hosted by the Museum of the Aleutians. The site was chosen because it was in danger of being lost to erosion during winter storms. Locals helped to dig, screen, and document this interesting and atypical site. Unlike many sites in the Aleutians, UNL-208 was the location of a temporary camp where people harvested blue mussel and fish. Through careful digging it was possible to identify individual "dumps" of shell and fish bone probably carried away from the central camp in a basket or similar container.

### LIFE IN A SEASONAL CAMP

Based on the abundant artifacts recovered at sites in Summer Bay we can get a glimpse of the everyday activities of people living here in the past. The large number of hafted stone knives attest to the importance of food processing such as filleting of fish. Based on modern practices, fish at summer bay was dried and stored for wintertime. Another important activity was the manufacture of tools made from the bones of sea mammals and birds. Bone tools were found in all stages of manufacture from initial shaping to the repair or recycling of older tools. Tools made from animal bones include fish hooks, barbed spear and harpoon points, awls and needles.

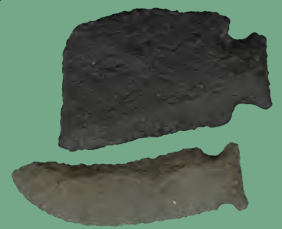
Needles and awls made of bird bone were important tools used in everyday life. These items were essential for the manufacture of clothing and for attaching the hides of sea mammals to wooden frames of kayaks. UnangaĀ used a variety of awls and needles. Awls, generally called *ansilaasix* include some shaped to split sinew, called *chaglisix*, and some to undo stitchings, called *siilax*. Needles included *chunkusix* (used to push through skins and other tough materials) and *hinguqax* (long bone needles for lacing *iqyax*). Many of the needles made by Unangan, such as the ones shown here, had finely-drilled eye holes.

UNL92-2238, UNL92-580, Photos courtesy Museum of the Aleutians



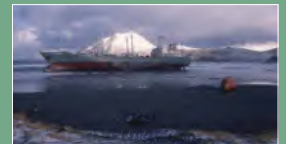
The *akaġusix* (toggling harpoon, top) is a critical tool used for hunting in open water. The toggle head was tipped with stone point and connected to the shaft with a line made of kelp or sinew. Once embedded in the target, the toggle rotates 90 degrees, securely attaching the line and allowing the hunter to retrieve their quarry. A *cunilġix* (bottom photo), is part of a throwing lance or harpoon and is tipped with a *kadaġ* (stone harpoon head).

Photos courtesy Museum of the Aleutians



*Qichġin* (sharp knives), *qitġusix* (scrapers), *umġisix* (curved knives). These stone tools made of basaltic andesite were likely cutting and scraping.

UNL92-47, UNL92-877, Photos courtesy Museum of the Aleutians



In November of 1997, during a particularly strong storm, the MV Kuroshima ran aground spilling petroleum oil into Summer Bay. Oil contamination reached the shoreline and portions of the dune system, including the area of a prominent archaeological site UNL-92. As part of the restoration efforts, archaeologists from the Museum of the Aleutians initiated the first archaeological investigation in Summer Bay. Restoration efforts involved the removal of contaminated sediments and planting of native rye grass to enhance dune stabilization.

Photo courtesy Museum of the Aleutians



Unangan *tunuu* is an ancient language and not a direct translation of the English or Russian names.

Made Possible by the Institute of Museum and Library Services and is a collaboration between the Museum of the Aleutians, Curatorial Cooperation, City of Unalaska, Qawalgaġin Tribe, the Aleut Community of St. Paul Tribal Government, Aleutian Public Island Association, U.S. Fish and Wildlife Service, Alaska Volcano Observatory and National Oceanic and Atmospheric Administration.

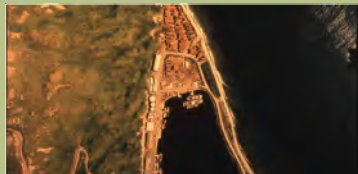
## UNANGAM TANANGIN AYGAXSIX (WALKING THE UNANGAĀ ISLANDS)

# UdaĀtan Tanaxtaxak

### ARCHAEOLOGY

UdaĀtan (also known as Tanaxtaxak or the Spit Site) was an Unangan village up until 500 years ago. For generations UnangaĀ lived at this location on the base of the Amaknak Spit overlooking Iliuliuk Bay to the east and to the west, the natural harbor known today as Dutch Harbor.

The mound formed between 1000 - 500 years ago as ordinary materials and food refuse were discarded. The loose soil was ideal for construction of Ulan, or semi-subterranean homes, the traditional housing utilized in the Aleutian Islands. Construction and repairs of these houses added unearthened soil to the ground surface. Over time, with repeated house construction and repairs, the mound rose to approximately 20 feet above the natural surface of the spit. The UnangaĀ village here was abandoned around 500 years ago. According to oral history during the Russian Colonial period, Unangan used the area for gardening as the richly organic soils of the former village produced excellent vegetables. The name of site, Tanaxtaxak, references gardening and probably originates from this period.



During WWII the location was used for coastal defense and a bunker was constructed into the mound from where crews monitored a submarine net that stretched across Iliuliuk Bay. Photos courtesy Museum of the Aleutians

### EXCAVATIONS THROUGH THE AGES



Photo courtesy Museum of the Aleutians

The large mound of Tanaxtaxak caught the attention of adventurers, ethnographers, anthropologists, paleontologists, and archaeologists through the centuries. French ethnographer Alphonse Pinart and William

Healy Dall visited this site in the 1870s. Dall excavated house features and recovered artifacts that are now curated at the Smithsonian Institution. In 1909, as a member of the Russian-American Jessup Expedition, Waldemar Jochelson excavated to a depth of 16 feet revealing a deep profile of cultural deposits with natural beach shingle at the base. Jochelson identified 12 house pits on the surface of the mound, attesting to the size of the village during the late prehistoric period. During WWII, Tanaxtaxak and other Amaknak Island sites were disturbed by military construction. Navy officer and zoologist Alvin Cahn collected important information from Tanaxtaxak and other sites and sent a substantial collection of artifacts to be properly housed at the Field Museum of Natural History and American Museum of Natural History. More recently, extensive excavations at Tanaxtaxak were conducted through the Museum of the Aleutians and directed by Richard Knecht and Richard Davis. These excavations employed modern excavation methods and disciplinary standards. Several radiocarbon dates were obtained from controlled

contexts, providing the timeline for village occupation and abandonment. The large collection of material recovered includes abundant animal bone; chipped and ground stone debitage and tools; bone tools including fish hooks, harpoons, needles and awls; lamps and cooking stones; and few examples of ornamental objects. These are housed at the Museum of the Aleutians on behalf of the Unalaska Corporation.



Photo courtesy Museum of the Aleutians

Commonly known as an ulu, a woman's knife in Unangam Tunuu is called a **UdaĀtan**. UNL055.586. Courtesy Museum of the Aleutians.



This KulitaĀ or Labret made of a sea mammal bone and was used for personal ornamentation. UNL055.124. Courtesy Museum of the Aleutians.



Bead made of jet, UNL55.2567. Courtesy Museum of the Aleutians.

In the millennium prior to European contact and subsequent colonization, Unangan living in the Eastern Aleutian Islands were at an apex of population size and maintained a rich and complex culture. Larger and more numerous village sites dotted the shorelines and housing styles expanded to include multiroom ulan and, in some locations, communal longhouses. Evidence for trade and contact with peoples living on the Alaska Peninsula and Kodiak Archipelago is seen in the presence of imported ornamental objects, and, most notably the appearance of ground slate ulus. Slate does not occur naturally in the Aleutian Islands and the presence of slate ulus in the Eastern Aleutians suggests habitual trade with Kodiak Islanders (Sugpiaq).

**Signs of Social Complexity:** Ornamental objects such as this figurine become more common during the late prehistoric period. Labrets were worn in a hole in the lower lip and served as signals of social status. Labrets were often manufactured from bone or stone, but examples of labrets made from rare or imported materials such as petrified wood or coal are also seen.



Unangam tunuu is an ancient language and not a direct translation of the English or Russian names.

Made Possible by the Institute of Museum and Library Services and is a collaboration between the Museum of the Aleutians, Unalaska Corporation, City of Unalaska, Qavwagangin Tribe, the Aleut Community of St. Paul Tribal Government, Aleutian Pribilof Islands Association, U.S. Fish and Wildlife Service, Alaska Volcano Observatory, and National Oceanic and Atmospheric Administration.



**CITY OF UNALASKA, ALASKA  
PLANNING COMMISSION & PLATTING BOARD  
REGULAR MEETING  
THURSDAY, NOVEMBER 16, 2023, IMMEDIATELY FOLLOWING HPC MEETING  
AGENDA**

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**ZOOM Meeting Link:**

<https://us02web.zoom.us/j/84505322171?pwd=TGFiZCtIRGJBtVZyI9IS2djYW9KUT09>

**Meeting ID:** 845 0532 2171    **Access Code:** 920078

**Toll Free Numbers:**    (833) 548 0276            (833) 548 0282            (877) 853 5247            (888) 788 0099

CALL TO ORDER  
ROLL CALL  
REVISIONS TO THE AGENDA  
APPEARANCE REQUESTS  
ANNOUNCEMENTS

MINUTES: Draft minutes from the meeting October 19, 2023

PUBLIC HEARING

1. **RESOLUTION 2023-08:** A RESOLUTION APPROVING THE PRELIMINARY PLAT OF ILIULIUK HEALTH CAMPUS, COMBINING BLOCK 1, RESERVOIR HILL SUBDIVISION PLAT 92-12 AND BLOCK 2-A, UNALASKA PEDESTRIAN PATHWAY RIGHT OF WAY ACQUISITIONS PLAT 97-14.

OLD BUSINESS

*No items*

NEW BUSINESS

1. **RESOLUTION 2023-08:** A RESOLUTION APPROVING THE PRELIMINARY PLAT OF ILIULIUK HEALTH CAMPUS, COMBINING BLOCK 1, RESERVOIR HILL SUBDIVISION PLAT 92-12 AND BLOCK 2-A, UNALASKA PEDESTRIAN PATHWAY RIGHT OF WAY ACQUISITIONS PLAT 97-14.

WORKSESSION

1. Discussion of the FY25-34 Capital and Major Maintenance Plan (CMMP).

ADJOURNMENT



# Principles of the Unalaska Planning Commission

1. The Position: In any community, the position of Planning Commissioner is a highly respected and honored one.
2. The Job: The job of Planning Commissioner is to serve the public, as representatives of the City Council and to the best of their ability, in ensuring sound planning and growth management in Unalaska. All decisions of the Planning Commission should be based on sound planning principles and practices, and not on the personal opinion of individual Planning Commissioners. Once the Planning Commission makes a recommendation to the City Council, the job of the Planning Commissioners and Planning Commission is over, in terms of that particular action.
3. Integrity: Planning Commissioners are appointed by City Council. The actions, behavior, and comportment of each Planning Commissioner reflect not only on that Planning Commissioner's integrity – but also on the integrity of the City Council and of the entire City government.
4. Collaboration: An individual Planning Commissioner is not a “lone wolf,” but is part of a collective body. As such, each Planning Commissioner is expected to act in a collaborative manner with his and her fellow Planning Commissioners.
5. Respect Each Other: While it is understandable to sometimes disagree with your fellow Planning Commissioners on issues brought before the body, and appropriate to publically vocalize that disagreement during Planning Commission meetings, a Planning Commissioner should always respect the opinion of their fellow Commissioners and treat each other with respect.
6. Majority Rules: It is important to remember that, at the end of the day, the majority rules. So, after each action is brought before the body, discussed, and voted upon, Planning Commissioners must accept and respect the rule of the majority – even if the ruling was counter to an individual Commissioner's position.
7. Respect Staff: A Planning Commissioner should respect the opinion of City Planning Staff, whether the Planning Commissioner agrees with staff or not. Planning Staff Members are professionals who are employed to serve not only the Planning Commission and general public, but the City Council.
8. The Las Vegas Rule: What comes before the Planning Commission must stay before the Planning Commission. This means there can be no outside negotiating with petitioners or with the public regarding applications brought before the Commission. And, all discussions – pro or con – concerning a petition before the Planning Commission, must take place solely within Planning Commission meetings.
9. Respect Applicants and Public: Each Planning Commissioner must always show professionalism and respect for applicants and the general public – regardless of the position held by that Planning Commissioner or by the Planning Commission.
10. Upholding the Principles: Any member of the Planning Commission who finds that he or she cannot uphold and abide by the above principles should resign from the Commission.

## PROCEDURES FOR THE CHAIR

### Approval of Minutes

The Chair states: "The minutes were included in the packet. Are there any corrections to the minutes?" [pause to wait for commissioners to object]. "Hearing none, if there are no objections, the minutes are approved as printed."

OR

If there are objects to the minutes, then...

1. Ask for a motion to approve the minutes as printed. And a second.
2. Facilitate Commission discussion.
3. Amendments will need a motion and a second.
4. When there is no more discussion, call for a vote on any amendments.
5. Continue discussion until there is none further, then call for a vote on the minutes as amended.

### Public Hearings

1. Open the public hearing.
2. Notify the public that they may raise their hand and speak from their seats.
3. Read the title of the first item.
4. Ask if any member of the public wishes to speak to the item. They may do so by raising their hand.
5. When discussion has ended, read the title of the second item.
6. Again ask for public discussion.
7. Continue until all items on the public hearing are complete.
8. NOTE: No commissioners or staff should give any input during the public hearing.

### Resolutions under new business or old business

1. Read the title of the first resolution.
2. Ask for declaration of ex parte communications and conflicts of interest from commissioners.
3. Any question of whether a conflict of interest exists will be settled by a majority vote of the Commission. Members with a conflict will be asked to sit in the audience during this discussion/vote.
4. Ask for staff presentation.
5. Ask for questions from Commissioners of staff.
6. Ask for a presentation from the applicant.
7. Ask for questions from Commissioners of the applicant.
8. Ask for a motion to approve the resolution. And a second.
9. Facilitate commission discussion.
10. If any members of the public have signed up to speak on the topic, they will be given a chance to speak. The chair must set a time limit (such as 2 minutes) to each public comment. Time limits can be objected by commissioners and subsequently put to a vote if necessary.
11. Following public testimony, continue commission discussion until there is nothing further.
12. NOTE: Each member of the public only gets one chance to speak, but anyone who signs up with staff before the commission votes shall be given their one chance to speak before the vote occurs.
13. Call for a vote.
14. Repeat for each resolution on the agenda.



10. Work session: None.

11. Adjournment: Having completed the agenda, the meeting was adjourned without objection at 6:56 p.m.

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Cameron Dean  
Secretary of Commission

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Travis Swangel  
Commission Chairman

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Date

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Date

DRAFT

**City of Unalaska, Alaska  
Planning Commission/Platting Board  
Staff Report**

**RESOLUTION 2023-08: A RESOLUTION APPROVING THE PRELIMINARY PLAT OF ILIULIUK HEALTH CAMPUS, COMBINING BLOCK 1, RESERVOIR HILL SUBDIVISION PLAT 92-12 AND BLOCK 2-A, UNALASKA PEDESTRIAN PATHWAY RIGHT OF WAY ACQUISITIONS PLAT 97-14**

Basic Information	
<b>Application Type</b>	Preliminary Plat
<b>Land Owner(s)</b>	City of Unalaska
<b>Applicant</b>	City of Unalaska
<b>Proposed Use</b>	Clinic Expansion
<b>Exhibits</b>	Draft Resolution 2023-08, Supplemental Materials, Location Map
<b>Staff Recommendation</b>	Approval of Resolution 2023-08

Legal Information	
<b>Tax Parcel ID</b>	04-09-234, 04-09-232
<b>Address</b>	34 Lavelle Court, Unalaska, Alaska 99685
<b>Legal Description</b>	Block 2-A, Plat 97-14 Unalaska Pedestrian Pathway, AIRD
<b>Land Use Subarea</b>	Haystack Hill Subarea

Area Description	
<b>North</b>	Public/Quasi-Public: City Hall
<b>South</b>	General Commercial and Public/Quasi-Public: Public Safety
<b>East</b>	General Commercial – NAPA/BC Rental
<b>West</b>	Single-Family/Duplex, used as open space

Current Site Description and Zoning Standards	
<b>Zone</b>	Public/Quasi-public (SFO) (UCO §8.12.120)
<b>Existing Use</b>	IFHS clinic
<b>Permitted Uses</b>	<ol style="list-style-type: none"> <li>1) Airports;</li> <li>2) Government offices;</li> <li>3) Community buildings and halls;</li> <li>4) Museums;</li> <li>5) Public and private schools;</li> <li>6) Park and recreation facilities;</li> <li>7) Maintenance shops;</li> <li>8) Public safety buildings;</li> <li>9) Libraries;</li> <li>10) Radio and television transmission towers and equipment;</li> <li>11) Churches;</li> <li>12) Medical facilities;</li> <li>13) Warehouses;</li> <li>14) Public and quasi-public buildings essential to the physical and economic welfare of the area, such as utility buildings and facilities, fire stations, electric substations, water treatment plants, telephone exchanges, and similar uses or public services</li> </ol>
<b>Conditional Uses</b>	<ol style="list-style-type: none"> <li>1) Power generation facilities;</li> <li>2) Cemeteries;</li> <li>3) Solid waste disposal sites and sanitary landfills;</li> <li>4) Sewage treatment facilities;</li> <li>5) Fuel storage facilities;</li> <li>6) Correctional facilities;</li> <li>7) Resource extraction</li> </ol>

Parcel History	
<b>Planning Commission Resolution</b>	<p><b>Resolution 92-03:</b> A Resolution to the Unalaska City Council recommending approval to re-zone Reservoir Hill Subdivision Blocks, One, Two and Three from the current zoning designations, General Commercial, Single/Family – Duplex and Open Space Recreational to a Public-Quasi Public Zone Designation – APPROVED</p> <p><b>Resolution 2023-06:</b> A Resolution recommending to the City Council the vacation of Lavelle court on Block 1, Plat 92-12 Reservoir Hill Subdivision and Block 2-A, Plat 97-14 Unalaska Pedestrian Pathway for the purposes of replatting as a single parcel – APPROVED</p>
<b>City Council Ordinance</b>	<p><b>Resolution 2023-34:</b> A resolution of the Unalaska City Council approving the vacation of Lavelle court and combination of Block 1 of Reservoir Hill Subdivision, Plat 92-12, and Block 2-A of Unalaska Pedestrian Pathway, Plat 97-14 – Approved</p>

**ADDITIONAL CODE REQUIREMENTS**

1. § 8.08.040(A)(4): (A) Notwithstanding other provisions of this chapter, an abbreviated plat procedure is established for a plat that will: ... (4) Not require a vacation of a public dedication of land excepting utility easements;
2. § 8.08.070 Platting Procedures – All of section (A) Preliminary Plat

**PLAN GUIDANCE**

1. The Unalaska Comprehensive Plan 2020 identifies a vision for the future that includes the following:
  - Health and Wellbeing section has several actions relating to IFHS improving and expanding its infrastructure, services available and the creation of a regional hospital.

**BACKGROUND**

1. IFHS has received grant money to for expansion and provision of new services, including a CT machine.
2. In order to provide a lease for the expansion, the parcels must be combined into a single parcel.
3. The previous action regarding these parcels, was the vacation of the paper street, Lavelle Court.
4. A detailed as-built is attached showing the current building configuration.

**DETAILED FINDINGS**

1. The Plat meets the requirements except for the 1 inch to 100-foot resolution requirement. Staff determined in the interest of readability it would be best to increase the resolution and readability.
2. The plat shows the location of the electric utility easement on the rear of the lot. Utilities will likely be re-run with the construction expansion
3. This would normally be a straightforward combination of two parcels, handled administratively, however the vacation of Lavelle Court requires the plat have approval of the Commission.
4. The memorial will have a clause in the lease to cover its area.

**CONDITIONS**

1. N/A.

**RECOMMENDATION**

In accordance with the standards outlined in Unalaska City Code of Ordinances Chapter 8.08 (Platting), the City of Unalaska Department of Planning recommends approval of this preliminary plat request identified in Resolution 2023-08.



# PLANNING REQUEST APPLICATION FORM

## CITY OF UNALASKA, ALASKA

Department of Planning  
 PO Box 610  
 Unalaska, Alaska 99685-0610  
 Phone: (907) 581 3100 FAX (907) 581 4181  
 Email: [planning@ci.unalaska.ak.us](mailto:planning@ci.unalaska.ak.us)  
 Website: [www.ci.unalaska.ak.us](http://www.ci.unalaska.ak.us)

The undersigned hereby applies to the City of Unalaska for approval of the following as per Title 8: Planning and Land Use Development, UCO.

APPLICATION FOR:       VARIANCE                       CONDITIONAL USE  
                                   ZONE AMENDMENT                       PLAT

Brief Description of Request: (attach additional information to communicate request)

Combine 2 lots into one and Vacation of Lavelle Court in accordance with City Resolution 2023-34.

Current Zone Designation: Public/Quasi-Public Proposed Zone Designation(s) (if applicable): no change

Current Land Use(s): Health Clinic Proposed Land Use(s) (if changing): Health Clinic

Property Owner: City of Unalaska

Property Owner Address: P.O. Box 610 Unalaska AK 99685

Street Address of Property: 34 Lavelle Ct., Unalaska AK 99685

Applicant's Name: Noel Rea at Iliuliuk Family Health Services Clinic

Mailing Address: P.O. Box 144, Unalaska, AK 99685

Email: nrea@ifhs.org Day Time Phone: 907-581-1212 Message Phone: \_\_\_\_\_

FOR OFFICE USE ONLY		DATE	
Preliminary Plat Copies		Attachment A	
Applicant Letter		Site Plan	
Application Fee		Title Search/Certificate-to-Plat	

**PROPERTY LEGAL DESCRIPTION:** (Fill in applicable blanks)

*BLOCK ONE Plat 92-12 & Block 2-A Plat 97-14*

Tax Lot ID No.: \_\_\_\_\_ Lot : \_\_\_\_\_ Block: <sup>B1 P92-12 & B2A P97-14</sup> \_\_\_\_\_ Tract: \_\_\_\_\_

Subdivision: P92-12 P97-14  
Reservoir Hill & Unalaska Pedestrian Pathway USS: \_\_\_\_\_

Section(s): 10 Township: 73 S Range: 118 W

**PROPOSED FUTURE DESIGNATION OF PROPERTY: (For Plat Application Only)**

Platting Procedures and Requirements are described in detail in Chapter 8.08: Platting and Subdivision. A certificate to plat as proof of ownership shall accompany the submittal of a plat.

**SUBDIVISION** ILIULIUK HEALTH CAMPUS

Block(s) \_\_\_\_\_ Lot (s) \_\_\_\_\_ Tract (s) TRACT A USS \_\_\_\_\_

Containing: 3.83 Acre(s) \_\_\_\_\_ Lot(s) \_\_\_\_\_ Tract(s) 1

**SURVEYOR INFORMATION**

Surveyor Name : Bill McClintock

Firm Name : McCLINTOCK LAND ASSOCIATES, Inc.

Address : 16942 N. Eagle river Loop, Eagle River, AK 99577

Contact Details : Email bmcclintock@mappingalaska.com Phone Number 907-206-5000

Registered in Alaska: Yes  No

**REQUIRED SUPPLEMENTAL INFORMATION (For Variance, Zone Amendment and Conditional Use Application Only).**

**Subdivision Variance (8.08.110)**

Applicant is encouraged to submit supporting documentation and a site plan to demonstrate how the requested Variance:

- Is needed due to special circumstances or conditions affecting the proposed subdivision such that strict application of the provisions of this chapter would clearly be impractical or undesirable to the general public or that strict application would be unreasonable or cause undue hardship to the applicant requesting the variance.
- Will not be detrimental to the public welfare or injurious to other property in the area in which the proposed subdivision is located;
- Will be in accord with the intent and purpose of this chapter and of the Comprehensive Plan of the city.

**Zone Amendment (8.12.190)**

Applicant is encouraged to submit supporting documentation to demonstrate how the requested Zone Amendment is reasonable, in the public interest, and in conformance with the goals and objectives of the Comprehensive Plan.



**Conditional Use (8.12.200)**

Applicant is encouraged to submit supporting documentation and a site plan to demonstrate how the requested Conditional Use:

- Furthers the goals and objectives of the Comprehensive Development Plan;
- Will be compatible with existing and planned land uses in the surrounding neighborhood and with the intent of its use district; and
- Will not have a permanent negative impact substantially greater than anticipated from permitted development within the district.

**Zoning Variance (8.12.210)**

Applicant is encouraged to submit supporting documentation and a site plan to demonstrate how the requested Variance:

- Need is not caused by the person seeking the variance and that exceptional or extraordinary circumstances apply to the property which do not apply generally to other properties in the same zoning district, and result from lot size, shape, topography, or other circumstances over which the applicant has no control. An argument of "financial hardship" when defined as causing a developer to spend more than he is willing to in order to conform, is not an over-riding factor in the granting of a variance;
- Is necessary for the preservation of a property right of the applicant substantially the same as is possessed by other landowners in the same zoning district;
- Will not materially affect the health or safety of persons residing or working in the neighborhood and will not be materially detrimental to the public welfare or injurious to property or improvements in the neighborhood; and
- Will not be materially detrimental to the intent of this chapter, or to properties in the same zoning district in which the property is located, or otherwise conflict with the objectives of the Comprehensive Plan and the variance requested is the minimum variance, which would alleviate the hardship.

**\*SITE PLAN (TO SCALE):** Please show all existing and proposed structures, access, dimensions, utilities and parking as appropriate.

**PLEASE NOTE :** All applications must be received fifteen (15) days prior to the next regular meeting of the Planning Commission as per Section 8.12.200(A)(2), Section 8.12.210(B)(2) UCO, and Section 8.12.190 UCO. The Department of Planning will provide an examination of the City of Unalaska Real Property Tax Roll indicating that the signature of the landowner on the application form is in fact the latest owner of record. The Department of Planning will mail a notice of the public hearing to all landowners of record within 300 feet of the proposed request as shown in the City of Unalaska Real Property Tax Rolls.

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**CERTIFICATION:**

I hereby certify that (I Am) (I have been authorized to act for\*) the owner of the property described above and that I desire a planning action for this property in conformance with the Title 8, UCO and hereby dispose and say that all of the above statements are true. I am familiar with the code requirements and certify, to the best of my knowledge, belief, and professional ability, that this application meets them. I understand that payment of the review fee is non-refundable and is to cover costs associated with the processing of this application and that it does not assure approval of the request.

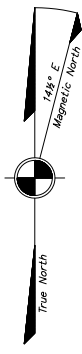
\_\_\_\_\_  
Signature

10/20/2023

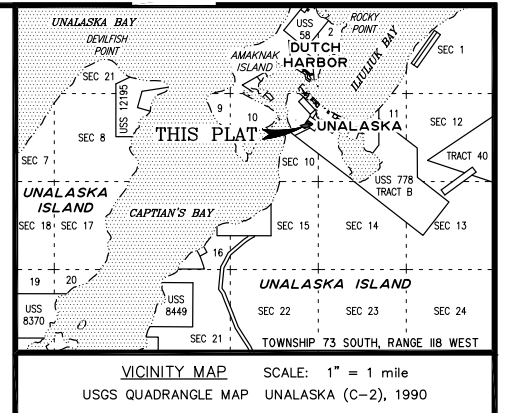
\_\_\_\_\_  
Date

**\*Please fill out and submit Authorization to Make Application by Agent form if acting as Owner's Agent**

CURVE DATA TABLE					
CURVE	RADIUS	LENGTH	ANGLE	CHORD BEARING	CHORD LENGTH
C1	50.00'	80.86'	92°39'41"	S10°36'00"E	72.33'
	(50.00' D)	(80.86' D)			
C2	595.96'	52.59'	5°03'23"	S57°03'11"W	52.58'
	(595.96' C)	(52.51' C)			
C3	572.96'	223.98'	22°23'54"	S62°52'20"W	222.56'
	(572.96' D)	(223.98' D)	(22°23'54" D)		
C4	970.67'	200.00'	11°48'20"	S57°34'33"W	199.65'
	(970.67' D)	(200.00' D)	(11°48'20" D)		



MAGNETIC DECLINATION  
PER USGS QUADRANGLE MAP  
UNALASKA (C-2), 1990



VICINITY MAP SCALE: 1" = 1 mile  
USGS QUADRANGLE MAP UNALASKA (C-2), 1990

**LEGEND**

- ⊗ FOUND METAL CAP ON 3" IRON PIPE
- ⊕ FOUND ALUMINUM CAP
- FOUND PLASTIC CAP
- ⊙ FOUND STREET CENTERLINE MONUMENT IN CASE
- ⊕ SET 2" ALUMINUM CAP ON 5/8"x30" POINTED REBAR
- XX XX XX MEASURED DATA
- (XX XX XX) RECORD DATA PER PLAT OF RESERVOIR HILL SUBDIVISION (PLAT 92-12)
- (XX XX XX B) RECORD DATA PER PLAT OF HAYSTACK HILL SUBDIVISION (PLAT 91-14)
- (XX XX XX C) RECORD DATA PER PLAT OF UNALASKA PEDESTRIAN PATHWAY RIGHT-OF-WAY ACQUISITIONS (PLAT 97-14)
- (XX XX XX D) RECORD DATA PER PLAT OF UNALASKA AIRPORT BEACH ROAD RIGHT-OF-WAY MAP (PLAT 98-15)
- (XX XX XX E) RECORD DATA PER PLAT OF OLGIN-NEWMAN SUBDIVISION (PLAT 93-26)
- 2 BLOCK NUMBER
- C2 CORNER NUMBER
- NT NON-TANGENT
- WC WITNESS CORNER
- PROPERTY LINE VACATED BY THIS PLAT
- AREA OF RIGHT-OF-WAY (LAVELLE COURT) VACATED BY THIS PLAT AND CITY OF UNALASKA RESOLUTION 2023-34 (SEE NOTE 9)
- IHC TRA 2023 TYPICALLY MARKED 2" ALUMINUM CAP, SET THIS SURVEY

**CERTIFICATE OF OWNERSHIP AND DEDICATION**

I, THE UNDERSIGNED, CERTIFY THAT THE CITY OF UNALASKA IS THE OWNER OF OF ILIULIUK HEALTH CAMPUS, AS SHOWN ON THIS PLAT. ON BEHALF OF THE CITY OF UNALASKA, I APPROVE THIS SURVEY AND PLAT AND DEDICATE OR RESERVE FOR PUBLIC OR PRIVATE USE, AS NOTED, ALL EASEMENTS, PUBLIC UTILITY AREAS, AND RIGHTS-OF-WAY AS SHOWN AND DESCRIBED ON THIS PLAT.

WILLIAM HOMKA, CITY MANAGER DATE  
CITY OF UNALASKA  
P.O. BOX 610  
UNALASKA, ALASKA 99685

**NOTARY'S ACKNOWLEDGEMENT**  
SUBSCRIBED AND SWORN TO BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_\_  
BY WILLIAM HOMKA, CITY MANAGER  
PERSONALLY APPEARING BEFORE ME.

NOTARY FOR THE STATE OF ALASKA  
MY COMMISSION EXPIRES: \_\_\_\_\_

**CITY APPROVAL CERTIFICATE**

THE CITY OF UNALASKA HEREBY APPROVES THE SUBDIVISION SHOWN ON THIS PLAT.

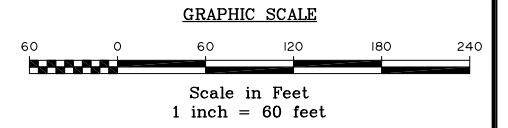
CITY CLERK DATE

CHAIR OF THE PLATTING BOARD DATE

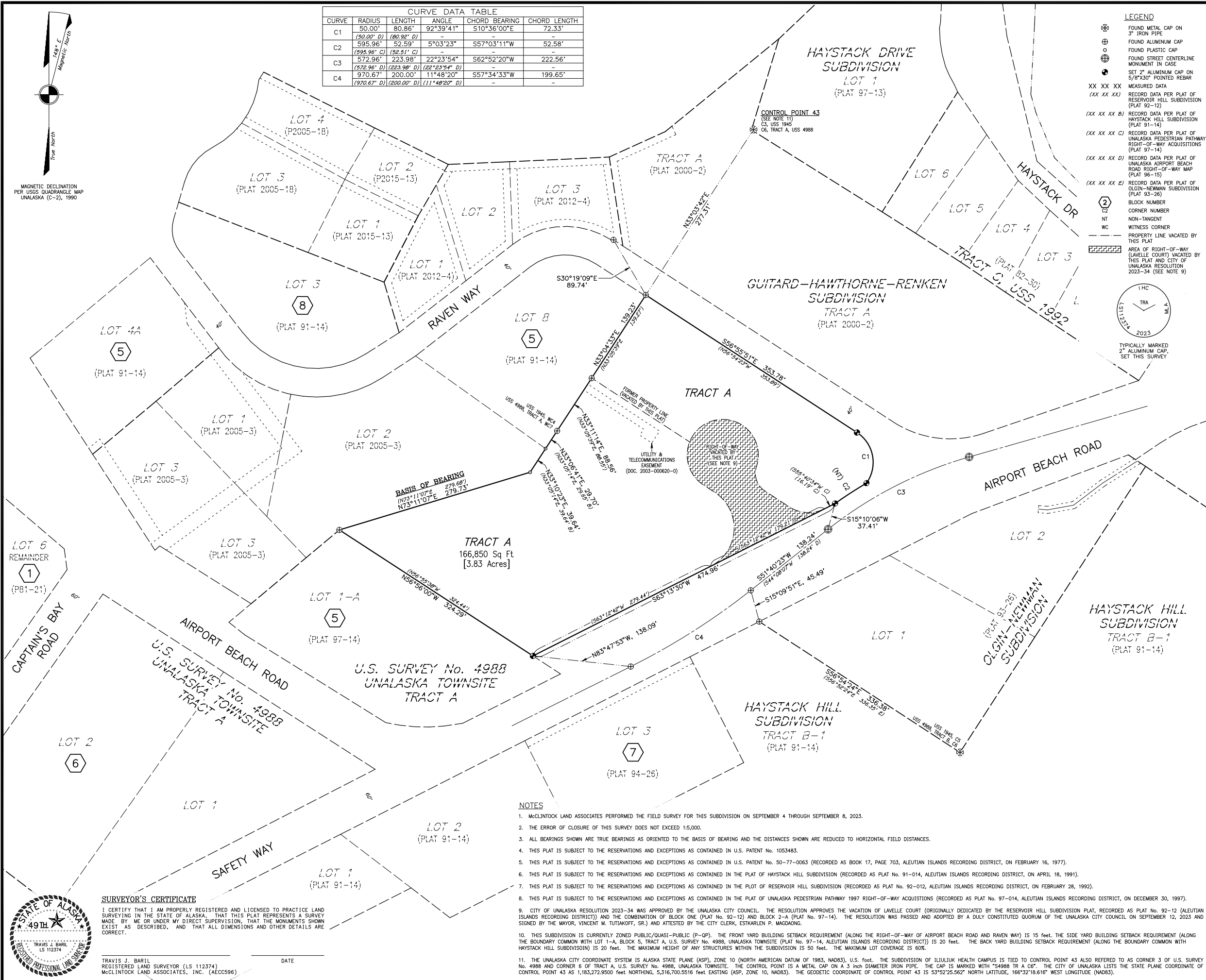
**TAX CERTIFICATE**

I HEREBY CERTIFY THAT NO TAX PAYMENT IS CURRENTLY DUE FOR THE PROPERTY SHOWN HEREON.

TAX OFFICIAL, CITY OF UNALASKA DATE



A PLAT OF  
**ILIULIUK HEALTH CAMPUS**  
CREATING  
**TRACT A**  
A SUBDIVISION OF  
BLOCK ONE, RESERVOIR HILL SUBDIVISION (PLAT No. 92-12) and  
BLOCK 2-A, UNALASKA PEDESTRIAN PATHWAY RIGHT-OF-WAY  
ACQUISITIONS (PLAT No. 97-14) and  
RIGHT-OF-WAY VACATION OF LAVELLE COURT  
(CITY OF UNALASKA RESOLUTION No. 2023-34)  
LOCATED WITHIN  
SECTION 10, TOWNSHIP 73 SOUTH, RANGE 118 WEST  
SEWARD MERIDIAN, ALASKA  
CONTAINING 3.83 ACRES, MORE OR LESS  
**ALEUTIAN ISLANDS RECORDING DISTRICT**  
PREPARED BY: **McCLINTOCK LAND ASSOCIATES, INC.**  
16942 NORTH EAGLE RIVER LOOP ROAD  
EAGLE RIVER, ALASKA 99577  
(907) 206-5000  
PREPARED FOR:  
**CITY OF UNALASKA**  
P.O. BOX 610  
UNALASKA, ALASKA 99685  
(907) 581-1251  
PLOT: 1"=60' CHK: BM JOB: 23-244 DWG: PL23244B FB NO: LL  
GRID: UNALASKA DWN: JC DATE: 11-03-23 DISK: MLASERVER SHEET: 1 OF 1



- NOTES**
- McCLINTOCK LAND ASSOCIATES PERFORMED THE FIELD SURVEY FOR THIS SUBDIVISION ON SEPTEMBER 4 THROUGH SEPTEMBER 8, 2023.
  - THE ERROR OF CLOSURE OF THIS SURVEY DOES NOT EXCEED 1:5,000.
  - ALL BEARINGS SHOWN ARE TRUE BEARINGS AS ORIENTED TO THE BASIS OF BEARING AND THE DISTANCES SHOWN ARE REDUCED TO HORIZONTAL FIELD DISTANCES.
  - THIS PLAT IS SUBJECT TO THE RESERVATIONS AND EXCEPTIONS AS CONTAINED IN U.S. PATENT No. 1053483.
  - THIS PLAT IS SUBJECT TO THE RESERVATIONS AND EXCEPTIONS AS CONTAINED IN U.S. PATENT No. 50-77-0663 (RECORDED AS BOOK 17, PAGE 703, ALEUTIAN ISLANDS RECORDING DISTRICT, ON FEBRUARY 16, 1977).
  - THIS PLAT IS SUBJECT TO THE RESERVATIONS AND EXCEPTIONS AS CONTAINED IN THE PLAT OF HAYSTACK HILL SUBDIVISION (RECORDED AS PLAT No. 91-014, ALEUTIAN ISLANDS RECORDING DISTRICT, ON APRIL 18, 1991).
  - THIS PLAT IS SUBJECT TO THE RESERVATIONS AND EXCEPTIONS AS CONTAINED IN THE PLAT OF RESERVOIR HILL SUBDIVISION (RECORDED AS PLAT No. 92-012, ALEUTIAN ISLANDS RECORDING DISTRICT, ON FEBRUARY 28, 1992).
  - THIS PLAT IS SUBJECT TO THE RESERVATIONS AND EXCEPTIONS AS CONTAINED IN THE PLAT OF UNALASKA PEDESTRIAN PATHWAY 1997 RIGHT-OF-WAY ACQUISITIONS (RECORDED AS PLAT No. 97-014, ALEUTIAN ISLANDS RECORDING DISTRICT, ON DECEMBER 30, 1997).
  - CITY OF UNALASKA RESOLUTION 2023-34 WAS APPROVED BY THE UNALASKA CITY COUNCIL. THE RESOLUTION APPROVES THE VACATION OF LAVELLE COURT (ORIGINALLY DEDICATED BY THE RESERVOIR HILL SUBDIVISION PLAT, RECORDED AS PLAT No. 92-12 (ALEUTIAN ISLANDS RECORDING DISTRICT)) AND THE COMBINATION OF BLOCK ONE (PLAT No. 92-12) AND BLOCK 2-A (PLAT No. 97-14). THE RESOLUTION WAS PASSED AND ADOPTED BY A DULY CONSTITUTED QUORUM OF THE UNALASKA CITY COUNCIL ON SEPTEMBER 12, 2023 AND SIGNED BY THE MAYOR, VINCENT M. TUTAKOFF, SR. AND ATTESTED BY THE CITY CLERK, ESTERLEN P. MCDONOGH.
  - THIS SUBDIVISION IS CURRENTLY ZONED PUBLIC/QUASI-PUBLIC (P-QP). THE FRONT YARD BUILDING SETBACK REQUIREMENT (ALONG THE RIGHT-OF-WAY OF AIRPORT BEACH ROAD AND RAVEN WAY) IS 15 FEET. THE SIDE YARD BUILDING SETBACK REQUIREMENT (ALONG THE BOUNDARY COMMON WITH LOT 1-A, BLOCK 5, TRACT A, U.S. SURVEY No. 4988, UNALASKA TOWNSITE (PLAT No. 97-14, ALEUTIAN ISLANDS RECORDING DISTRICT)) IS 20 FEET. THE BACK YARD BUILDING SETBACK REQUIREMENT (ALONG THE BOUNDARY COMMON WITH HAYSTACK HILL SUBDIVISION) IS 20 FEET. THE MAXIMUM HEIGHT OF ANY STRUCTURES WITHIN THE SUBDIVISION IS 50 FEET. THE MAXIMUM LOT COVERAGE IS 60%.
  - THE UNALASKA CITY COORDINATE SYSTEM IS ALASKA STATE PLANE (ASP), ZONE 10 (NORTH AMERICAN DATUM OF 1983, NAD83), U.S. FOOT. THE SUBDIVISION OF ILIULIUK HEALTH CAMPUS IS TIED TO CONTROL POINT 43 ALSO REFERRED TO AS CORNER 3 OF U.S. SURVEY No. 4988 AND CORNER 6 OF TRACT A, U.S. SURVEY No. 4988, UNALASKA TOWNSITE. THE CONTROL POINT IS A METAL CAP ON A 3 INCH DIAMETER IRON PIPE. THE CAP IS MARKED WITH "4988 TR. A C6". THE CITY OF UNALASKA LISTS THE STATE PLANE COORDINATE OF CONTROL POINT 43 AS 1,183,272.9500 FEET NORTHING, 5,316,700.3516 FEET EASTING (ASP, ZONE 10, NAD83). THE GEODETIC COORDINATE OF CONTROL POINT 43 IS 53°52'25.562" NORTH LATITUDE, 166°32'18.616" WEST LONGITUDE (NAD83).

**SURVEYOR'S CERTIFICATE**  
I CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA. THAT THIS PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE MONUMENTS SHOWN EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT.  
TRAVIS J. BARIL LS 112374 DATE  
McCLINTOCK LAND ASSOCIATES, INC. (AECC596)



LOT 8

5

(PLAT 91-14)



SCALE: 1" = 50'

*This line vacated*

TRACT A  
(PLAT 2000-2)

RAVEN WAY

TRACT A

TRACT A  
166,850 Sq Ft  
[3.83 Acres]

VACATED

TELECOMMUNICATIONS BOX

ELECTRIC BOX

ELECTRIC BOX

TELECOMMUNICATIONS VAULTS

ELECTRIC PANEL

ELECTRIC BOX

AIRPORT BEACH ROAD

ILULIUK FAMILY &  
HEALTH SERVICES  
BUILDING

31.9'

47.7'



PREPARED BY:

McCLINTOCK LAND ASSOCIATES, INC.  
16942 NORTH EAGLE RIVER LOOP ROAD  
EAGLE RIVER, ALASKA 99577  
(907) 206-5000

**City of Unalaska, Alaska  
Planning Commission/Platting Board  
Resolution 2023-08**

**A RESOLUTION APPROVING THE PRELIMINARY PLAT OF ILIULIUK HEALTH  
CAMPUS, COMBINING BLOCK 1, RESERVOIR HILL SUBDIVISION PLAT 92-12 AND  
BLOCK 2-A, UNALASKA PEDESTRIAN PATHWAY RIGHT OF WAY ACQUISITIONS PLAT  
97-14.**

**WHEREAS**, UCO §8.08.070 sets forth the procedures for platting; and

**WHEREAS**, the City of Unalaska, is the owner of Block 1, Plat 92-12 Reservoir Hill Subdivision and Block 2-A, Plat 97-14 Unalaska Pedestrian Pathway, filed in the Aleutian Islands Recording District; and

**WHEREAS**, the City has initiated the platting process to combine the lots for the purposes of leasing to the IFHS Clinic; and

**WHEREAS**, the preliminary plat is the second step in the combination of these lots; and

**WHEREAS**, the encouragement, and support of the needs of the IFHS Clinic is desirable from the standpoint of public interest, as identified in the Unalaska Comprehensive Plan 2020; and

**WHEREAS**, the City of Unalaska Planning Commission held a public hearing on November 16, 2023 to consider this request and to hear testimony of the public, and

**WHEREAS**, the Planning Commission reviewed the application and finds that recommending the plat to be in the interest of the City and its residents;

**THEREFORE, BE IT RESOLVED**, that the Planning Commission approves the preliminary plat combining Block 1, Plat 92-12 Reservoir Hill Subdivision and Block 2-A, Plat 97-14 Unalaska Pedestrian Pathway, Aleutian Islands Recording District, as Block 1, Iliuliuk Heath Campus.

APPROVED AND ADOPTED THIS 16<sup>TH</sup> DAY OF NOVEMBER, 2023, BY THE PLANNING COMMISSION OF THE CITY OF UNALASKA, ALASKA.

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Travis Swangel  
Commission Chair

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Cameron Dean, Planning Director  
Secretary of the Commission





# FY24-33 CMMP

## Electrical Distribution Equipment Replacement

Electric

### Estimated Project & Purchase Timeline

Pre Design: NA

Engineering/Design: NA

Purchase/Construction: NA

**Project Description:** This project funds the purchase of ongoing replacement equipment for the electrical distribution system. It includes electrical switches, section cans, transformers, and cables. Electrical equipment will also be purchased for new customers and for existing customers who need to upgrade electrical service.

**Project Need:** Ongoing replacement of the distribution system equipment is necessary to maintain its reliability and protect the assets of the City and ensure the safe distribution of electricity. This project will correctly capture and capitalize the expenditures made to keep the system operational as well as in expand the system where necessary.

**Development Plan & Status :** Funding for this project will come from the Electrical Proprietary Fund retained earnings.

FY23 Cost Assumptions	
Engineering, Design, Construction Admin	
Other Professional Services	
Construction Services	
Machinery & Equipment	\$100,000
<b>Subtotal</b>	<b>\$100,000</b>
Contingency (0%)	0
<b>Total Funding Request</b>	<b>\$100,000</b>

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
Electric Proprietary Fund	115,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	0	900,000
<b>Total</b>	<b>115,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>0</b>	<b>900,000</b>











# FY24-33 CMMP

## Fire Station Remodel

Fire

### Estimated Project & Purchase Timeline

Pre Design: FY26

Engineering/Design: FY26

Purchase/Construction: FY29

**Project Description:** Remodel the existing DPS building after a new DPS building is constructed and the Police Department moves to the new facility.

**Project Need:** Constructed in 1987, the present structure is in need of HVAC, electrical and architectural upgrades. Due to lack of space, the garage for the fire apparatus also houses EMS supplies, turnout gear, the air compressor and gym. The cramped arrangement is unsafe and risks contamination from fumes.

**Development Plan & Status :** The existing structure will be extensively renovated for use by Fire / EMS. The department will relocate to another facility during the work. Architectural firm JYL produced an initial cost estimate of \$8,970,000 dated February 28, 2020. Funding will come from the General Fund.



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	0	10,383,896	0	0	0	10,383,896
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,383,896</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,383,896</b>













**Project Description:** Replacing the playground at Ounalashka Community Park (Kelty Field).

**Project Need:** Playgrounds are designed to last between 20 and 30 years. The Ounalashka Community Park playground was built in 1999 and reaches the end of its lifespan in FY28. Several structures have started to show age and the black rubber safety tiles now are easily moved out of place.

**Development Plan & Status :** This project will be funded by the General Fund.

# FY24-33 CMMP

## Community Park Replacement Playground PCR

### Estimated Project & Purchase Timeline

Pre Design: FY27

Engineering/Design: FY27

Purchase/Construction: FY28



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	500,000	0	0	0	0	500,000
<b>Total</b>	0	0	0	0	0	0	500,000	0	0	0	0	500,000







**Project Description:** Providing access to Community Park from the southwest side.

**Project Need:** Many children in the neighborhood adjacent to the south side of Kelty Field cross the stream to access the park. This project would create walking access to the park in the southwest side to allow these children to safely cross the stream and gain access to the park.

**Development Plan & Status :** This project will be funded by the General Fund.

# FY24-33 CMMP

## Kelty Field SW Access PCR

### Estimated Project & Purchase Timeline

Pre Design: FY28

Engineering/Design: FY28

Purchase/Construction: FY29



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	0	500,000	0	0	0	500,000
<b>Total</b>	0	0	0	0	0	0	0	500,000	0	0	0	500,000

**Project Description:** Turning the area in the Aquatic Center where the slide is into a Kiddie Pool/Splash Pad.

**Project Need:** The waterslide is the Aquatic Center's only attraction. It is not used often because it requires extra staffing and three swimming lanes are closed when running. Patrons are limited to one at a time and lifejackets are not allowed. If a child cannot reach the bottom of the pool where the slide comes out or they cannot swim to the side they are not able to use the slide. A kiddie pool with fountains and smaller slides will run continuously during open hours and with no additional staffing. Children who are not able to swim will be able to use this facility as a safe introduction to water. It will also be useable on its own. Multiple kids can use it simultaneously, and the new improvements can fit in the same space where the slide will be removed.

**Development Plan & Status :** This project will be funded by the General Fund.

# FY24-33 CMMP

## Kiddie Pool/Splash Pad PCR

### Estimated Project & Purchase Timeline

Pre Design: FY29

Engineering/Design: FY29

Purchase/Construction: FY30

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	0	0	500,000	0	0	500,000
<b>Total</b>	0	0	0	0	0	0	0	0	500,000	0	0	500,000

# FY24-33 CMMP

## Multipurpose Facility PCR

**Project Description:** Ounalashka Community Park was built in 1999 and is located in Unalaska Valley. It is the department's largest park and includes a softball field, outdoor basketball/tennis court, and a paved trail with some permanent exercise stations. In addition to the athletic equipment, it also has a playground, pavilion, and a snack shack which is occasionally used during PCR events. This project would build a covered multipurpose facility where the current tennis court is or somewhere close to it.

**Project Need:** In 2012, the court was resurfaced with plastic tiles in the hopes that they would be an improvement over the worn out court. However, they do not offer a realistic tennis surface and the court measures two feet too short. This project will:

- Improve the quality of the park's amenities.
- Evaluate the current and future facility in an effort to best accommodate Unalaska residents for the next 20 to 30 years.
- Provide a multipurpose covered facility, that can serve as an emergency shelter for the island outside the tsunami inundation zone.

**Development Plan & Status :** PCR staff and the Advisory Board will gauge public interest in bringing a covered facility with two regulation tennis courts. The estimated cost is \$5,629,000. \$562,000 or 10% will be spent in FY26 for design and scoping. These numbers came from Lose Design. There is grant funding available for emergency related services and the City will also seek a partnership with other island organizations to pursue available resources.

### Estimated Project & Purchase Timeline

Pre Design: FY25

Engineering/Design: FY26

Purchase/Construction: FY27



	<b>Subtotal</b>	<b>4,330,000</b>
Contingency (set at 30%)		1,299,000
	<b>TOTAL</b>	<b>5,629,000</b>
Less Other Funding Sources (Grants, etc.)		
	<b>Total Funding Request \$</b>	<b>5,629,000</b>

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	562,900	5,066,100	0	0	0	0	0	5,629,000
<b>Total</b>	0	0	0	0	562,900	5,066,100	0	0	0	0	0	5,629,000



**Project Description:** Creating a city park in the area above Westward Plant. This area of the community currently lacks any recreational amenities.

**Project Need:** Park development on west/southwest area of the city above Westward. The road system and utilities are already in place reducing the costs of construction. It is a natural place of a park serving an under-developed area of the city.

**Development Plan & Status :** Funding for this project would come from the General Fund.

# FY24-33 CMMP

## Park Above the Westward Plant

PCR

### Estimated Project & Purchase Timeline

Pre Design: FY29

Engineering/Design: FY29

Purchase/Construction: FY30



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	0	0	3,200,000	0	0	3,200,000
<b>Total</b>	0	0	0	0	0	0	0	0	3,200,000	0	0	3,200,000

# FY24-33 CMMP

**Project Description:** Expanding the pool towards the road in order to provide space for bleachers.

**Project Need:** Four years ago PCR purchased a Colorado Timing System so the Aquatic Center can accommodate larger swim meets. However, the size of our Natatorium is barely able to hold two swim teams as well as spectators comfortably. This project will expand the Aquatic Center on the south side to allow for bleachers for both spectators and teams and expand on the east side to install a small warm-up cool-down, 2 lane, 15 yard, 3 foot deep pool. This will make our pool competition ready and even open up the possibilities to having Regionals.

**Development Plan & Status :** This project will be funded by the General Fund.

## Pool Expansion PCR

### Estimated Project & Purchase Timeline

Pre Design: FY29

Engineering/Design: FY29

Purchase/Construction: FY30



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	0	0	2,000,000	0	0	2,000,000
<b>Total</b>	0	0	0	0	0	0	0	0	2,000,000	0	0	2,000,000





**Project Description:** Repurpose the existing warming pool into a spa.

**Project Need:** The warming pool at the Aquatic Center currently has a jet system and filters that go through our filtration system. We could easily build a wall between the jets and the entrance of the pool to create an overflow spa. The only additions that would be required is a wall and a separate heating unit. This would provide heated hydrotherapy to our community members who need it.

**Development Plan & Status :** This project will be funded by the General Fund.

# FY24-33 CMMP

**Spa**  
PCR

**Estimated Project & Purchase Timeline**

Pre Design: FY29

Engineering/Design: FY29

Purchase/Construction: FY30

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	0	0	200,000	0	0	200,000
<b>Total</b>	0	0	0	0	0	0	0	0	200,000	0	0	200,000

















**Project Description:** Remove the UST (underground storage tank) at City Hall and replace with an approved above ground fuel oil tank.

**Project Need:** UST's are known to rust and begin leaking. UST's are no longer approved and this tank needs to be replaced with an above ground tank with proper leak detection.

**Development Plan & Status :** This project will be funded by the General Fund.

# FY24-33 CMMP

## Underground Fuel Tank Removal / Replacement

Public Works

### Estimated Project & Purchase Timeline

Pre Design: FY28

Engineering/Design: FY28

Purchase/Construction: FY28



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
General Fund	0	0	0	0	0	0	60,000	0	0	0	0	60,000
<b>Total</b>	0	0	0	0	0	0	60,000	0	0	0	0	60,000









# FY24-33 CMMP

**Project Description:** This project will evaluate solutions to prevent the grease from entering the scum decant tank. This CMMP item includes the costs for an engineering evaluation and implementation of the improvements.

**Project Need:** At times, there can be large mats of accumulated grease in the clarifier. While skimming, the water/grease mixture is directed down the clarifier drainpipe to the scum decant tank. The water/grease mixture enters the scum decant tank, and the grease re-suspends in the water, allowing the grease to flow under the baffle with the water into the tank drain to the lift station. The grease then congeals and becomes a maintenance challenge for the lift station.

**Development Plan & Status :** The budget for this project was estimated from the Water Master Plan. A more accurate budget will be determined during the design phase of the project. Funding for this project will come from the Wastewater Proprietary Fund.

## Scum Decant Tank Wet Well Improvements

Wastewater

### Estimated Project & Purchase Timeline

Pre Design: FY26

Engineering/Design: FY27

Purchase/Construction: FY28



Cost Assumptions		
	Other Professional Services	
	Engineering, Design, Construction Admin	50,000
	Construction Services	60,000
	Machinery & Equipment	60,000
	Subtotal	170,000
	Contingency (15%)	25,500
	Total Funding Request	195,500

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
Wastewater Proprietary Fund	0	0	0	0	50,000	145,500	0	0	0	0	0	195,500
<b>Total</b>	0	0	0	0	50,000	145,500	0	0	0	0	0	195,500

# FY24-33 CMMP

## Wastewater Clarifier Baffling Improvements

Wastewater

### Estimated Project & Purchase Timeline

Pre Design: FY28

Engineering/Design: FY29

Purchase/Construction: FY30

**Project Description:** This project involves the engineering to evaluate and installing potential improvements to the two WWTP clarifiers. The evaluation should include a review of the record drawings, a site tour of the plant, and an evaluation of alternatives to optimize the configuration of the clarifiers.

**Project Need:** After screening, the wastewater is rapidly mixed with a coagulant and polymer to improve the settling process in the clarifier. The wastewater in the first clarifier portion is clear and settles well. As the wastewater effluent passes under the clarifier baffle wall at the discharge end, the water quality degrades by becoming turbid. It is presumed that the settled sludge is carried downstream to the chlorine contact tanks, where it settles. This is very inefficient and requires the operators to clean the tank at least twice a month to prevent excessive sludge buildup. The stirred sludge also requires more chlorine for disinfection and, as a result, more sodium bisulfate for dechlorinating. Significant benefit will be realized in both labor and chemical costs if the clarifier's performance is improved.

**Development Plan & Status :** The budget for this project was estimated from the Wastewater Master Plan and is an estimate at this point in the process. A more accurate budget will be determined during the design phase of the project. Funding for this project will come from the Wastewater Proprietary Fund.



Cost Assumptions	
Engineering, Design, Construction Admin	\$50,000
Other Professional Services	
Construction Services	\$100,000
Machinery & Equipment	\$100,000
<b>Subtotal</b>	<b>\$250,000</b>
Contingency (30%)	\$75,000
<b>Total Funding Request</b>	<b>\$325,000</b>

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
Wastewater Proprietary Fund	0	0	0	0	0	0	50,000	275,000	0	0	0	325,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>275,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325,000</b>







# FY24-33 CMMP

## Icy Lake Capacity Increase & Snow Basin

### Diversion

Water

#### Estimated Project & Purchase Timeline

Pre Design: FY31

Engineering/Design: FY32

Purchase/Construction: FY32

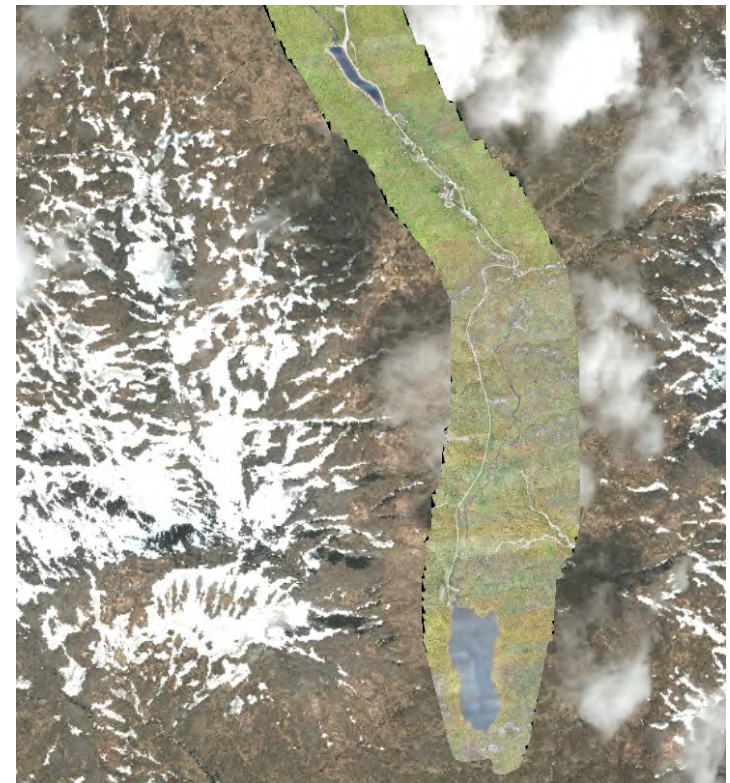
**Project Description:** This project will increase the height of the existing dam on the north side of Icy Lake and construct a new dam on the south end of Icy Lake. The 2006 Golder-letter describes the project as follows:

- The existing sheet pile dam at the north end of the lake would be raised 5 feet and the dam length increased from 67 to 98 feet.
- A new sheet pile dam, approximately 6 feet tall by 193 feet long would be built at the south end of the lake.
- Additional grading and riprap would be required for a larger spillway apron at the north dam.
- Riprap would be required for wave erosion protection of the south dam.
- Grouting at the north and south dams would be required to seal fractured bedrock.

**Project Need:** Additional capacity for raw water storage at Icy Lake would be beneficial to help span processing seasons that occur during the more prolonged and frequent dry weather periods. Water system operators use the lake to “bank” surplus water between processing seasons when demand is low, so that by the beginning of a processing season the utility is starting out with a full lake. During heavy processing the lake level gradually drops as demands exceed the combined capacity of Icy Creek and the wells, and operators release lake water into Icy Creek. This operational strategy has been stressed in recent years when dry weather coincides with processing seasons and the lake is drawn nearly empty. If the lake is run empty and the water system is not able to meet demands, water rationing and reducing fish processing throughput or diverting fish to processors in other communities would be required.

**Development Plan & Status :** The budget for this project was estimated from the Water Master Plan. A more accurate budget will be determined during the design phase of the project. Funding for this project will come from the Proprietary Fund and State Grants.

Cost Assumptions	
Engineering, Design, Construction Admin	\$150,000
Other Professional Services	\$30,000
Construction Services	\$2,020,000
Machinery & Equipment	
<b>Subtotal</b>	<b>2,200,000</b>
Contingency (30%)	\$660,000
<b>Total Funding Request</b>	<b>2,860,000</b>



Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
<b>Water Proprietary Fund</b>	0	0	0	0	0	0	0	0	2,860,000	0	0	2,860,000
<b>Total</b>	0	0	0	0	0	0	0	0	2,860,000	0	0	2,860,000



# FY24-33 CMMP

## Installation of Meter and Booster Pump at Agnes Beach PRV Station

Water

### Estimated Project & Purchase Timeline

Pre Design: FY28

Engineering/Design: FY29

Purchase/Construction: FY30

**Project Description:** This project would add water metering and a booster pump system at the Agnes Beach PRV station. The water metering will aid in leak detection, and utility management and understanding of where water is being used and when. The booster pump will provide water supply redundancy to Westward Seafoods, one of the largest customers in the water system, as well as redundancy to any further development along Captain’s Bay Road.

**Project Need:** The Agnes Beach PRV station drops the pressure of water from Pressure Zone 2 (Captains Bay Road) to Pressure Zone 3 (Town) hydraulic grade. The station also allows for water to flow to the higher elevation areas of Haystack Hill with an option to allow external boosting in the event of a fire demand on Haystack Hill. The current PRV set up does not allow any method of measuring water flow through the station and severely limits the ability to reverse flow from the wells in the lower pressure Zone 3 to higher pressure Zone 2 (Westward Seafoods). A booster pump will allow for the pumping of water from the lower pressure zone to the higher pressure zone in the event of a shut-down of the Pyramid Water Treatment Plant due to, for example, high turbidity.

**Development Plan & Status :** The budget for this project was estimated from the Water Master Plan. A more accurate budget will be determined during the design phase of the project. Funding for the project will come from the Water proprietary Fund.

Cost Assumptions	
Engineering, Design, Construction Admin	\$50,000
Other Professional Services	\$20,000
Construction Services	\$160,000
Machinery & Equipment	\$70,000
<b>Subtotal</b>	<b>\$300,000</b>
Contingency (30%)	\$90,000
<b>Total Funding Request</b>	<b>\$390,000</b>

Source	Appropriated	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	10 Yr. Total
Water Proprietary Fund	0	0	0	0	0	0	70,000	320,000	0	0	0	390,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>	<b>320,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>390,000</b>







