



# DRAFT

**Capital Improvement Program  
Project Review Committee Workshop  
Project Requests for CIP Ordinance 2020-10  
April 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup>, 2019**



**Prepared By:  
Department of Planning & Community Services  
Community Planning Division**

ORDINANCE 2020-10 CIP WORKBOOK

**TABLE OF CONTENTS**

TABLE OF CONTENTS .....  
PLANNING DIRECTOR INTRODUCTION .....  
PUBLIC NOTICE .....

AGENDA ..... TAB - AGENDA  
AGENDA & TELECONFERENCE INSTRUCTIONS .....

SUMMARY ..... TAB - SUMMARY  
PROJECT REVIEW COMMITTEE .....  
CIP PROJECT SELECTION PROCESS.....  
CRITERIA FOR CIP PROJECTS.....  
ORDINANCE 2020-10 BOND TARGET .....

6 YEAR CAPITAL PLAN ..... TAB – 6 YR PLAN

VILLAGE RESOLUTIONS..... TAB - VILLAGE RESOLUTIONS  
CITY OF POINT HOPE RESOLUTION 20-01 ..... PAGE-1  
CITY OF ATQASUK RESOLUTION 2020-01 ..... PAGE-3  
CITY OF KAKTOVIK RESOLUTION 2020-01 ..... PAGE-5  
NATIVE VILLAGE OF POINT LAY IRA COUNCIL RESOLUTION 2020-02..... PAGE-7  
WAINWRIGHT STEERING COMMITTEE RESOLUTION 2020-01..... PAGE-11  
ANAKTUVUK PASS CITY COUNCIL RESOLUTION 2019-01.....PAGE-13  
CITY OF NUIQSUT RESOLUTION 2018-04 ..... PAGE-15

PROJECT REQUESTS..... TAB – REQUEST LIST  
**PROJECT REQUEST SUMMARY AND PAGE GUIDE.....**

EDUCATION & SERVICE CENTER FACILITIES ..... TAB – SECTION 06  
.....PAGES 1 - 61

PUBLIC ROADS, STREETS, WATERCOURSE & FLOOD CONTROL..... TAB – SECTION 07  
.....PAGES 65 - 77

PUBLIC HOUSING ..... TAB – SECTION 08  
.....PAGES 81 - 84

WATER FACILITIES..... TAB – SECTION 09  
.....PAGES 85 - 129

SEWAGE TREATMENT DISPOSAL FACILITIES ..... TAB – SECTION 10  
.....PAGES 133 - 181

LIGHT, POWER, AND HEATING SYSTEMS ..... TAB – SECTION 13  
.....PAGES 185 - 205

PUBLIC SAFETY FACILITIES..... TAB – SECTION 14  
.....PAGES 209- 214

ORDINANCE 2020-10 CIP WORKBOOK

ORDINANCE 2020-10 CIP WORKBOOK

SANITARY FACILITIES..... TAB – SECTION 15  
.....PAGES 215-223

COMMUNICATIONS FUND ..... TAB – SECTION 17  
.....PAGES 227-232

GENERAL CAPITAL PROJECTS..... TAB – SECTION 18  
.....PAGES 233 - 339

ADMINISTRATION FACILITIES ..... TAB – SECTION 22  
.....PAGES 343 - 349

**PROJECT ANALYSIS REQUESTS ..... TAB – PAR REQUESTS**

PROJECT ANALYSIS REPORT SUMMARY LIST 2018 ..... PAGE  
PROJECT ANALYSIS REPORT REQUESTS 2019 WORKSHOP 2019-10 ..... PAGE  
PAR 2020-A ATQASUK FIRE STATION REPLACEMENT ..... PAGE -1  
PAR 2020-B BWR FIRE STATIONS HVAC SYSTEM UPGRADES ..... PAGE -5  
PAR 2020-C IHLC FLOOR IMPROVEMENT ..... PAGE-9  
PAR 2020-D NUIQSUT FIRE STATION REPLACEMENT..... PAGE-13  
PAR 2020-E Pt. HOPE FIRE STATION REPLACEMENT ..... PAGE-17  
PAR 2020-F TEACHER STORAGE STRUCTURE ..... PAGE-21  
PAR 2020-G VILLAGE CULVERT ASSESSMENT .....PAGE-25  
PAR 2020-H WAINWRIGHT FIRE STATION REPLACEMENT .....PAGE-29

# NORTH SLOPE BOROUGH PROJECT REVIEW COMMITTEE (PRC)

Scott Danner, Director, Public Works Department  
Lars Nelson, Deputy Director, Housing Department  
Eben Hopson, Director of Administration and Finance  
Bernadette Adams, CIPM Director  
Matt Dunn, Enterprise Fund Business Manager, Public Works



Harry K. Brower Jr., Mayor  
PO Box 69  
Barrow, AK 99723  
Phone (907) 852-0320  
Fax (907) 852-0322

## CIP Project Review Committee Ordinance 2020-10 Workshop

### AGENDA

REVIEW April 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup>, 2020 @ 9:30 am  
RECOMMENDATIONS April 3<sup>rd</sup>, 2020 @ 9:30 am  
Barrow High School Auditorium,

1. Call to Order and Roll Call
2. Invocation
3. Reorganization of PRC
4. Introduction by Planning Department
5. 2019 6-Year Capital Plan Review
6. Bond Capacity and Debt Target Review
7. Project Request Submittals – Order of Review by Section
  - a. 06 Education Facilities
  - b. 07 Public Roads, Streets & Water Courses
  - c. 08 Public Housing
  - d. 09 Water Facilities
  - e. 10 Sewage Treatment Facilities
  - f. 13 Light, Power & Heating Systems
  - g. 14 Public Safety Facilities
  - h. 15 Sanitary Facilities
  - i. 17 Comminutions
  - j. 18 General Capital Projects
  - k. 22 Administration
8. Project Analysis Requests & Recommendations
9. Project Request Recommendations - *FRIDAY*
10. Old Business
11. Scheduling of Next Meeting
12. Adjournment

# North Slope Borough

## PLANNING AND COMMUNITY SERVICES DEPARTMENT



P.O. Box 69  
Barrow, AK 99723  
☎ (907) 852-0320  
Fax: (907) 852-5991  
Email: Gordon.Brower@north-slope.org

*Gordon Brower, Director*

### MEMORANDUM

To: CIP Project Review Committee  
From: Gordon Brower, Director  
Date: April 1, 2020  
Subject: CIP 2020-10 Briefing Book

I would like to take this opportunity to welcome back the returning PRC members and to welcome new members.

This workbook introduces the CIP process and projects proposed for consideration under the CIP Ordinance 2020-10 for PRC recommendations to the Planning Commission.

The 2019 CIP Six Year Capital Plan identifies a need for capital funding that far exceeds the NSB's annual debt capacity. Many phased projects currently exist that have not achieved construction or completion funding due to the same fiscal constraints. This workbook contains project requests that address repair and replacement, to continue existing projects, and new projects.

Please review each request and form a recommendation to the Planning Commission of those projects that meet criteria and should be funded this year. During your deliberations my staff will be recording your discussion to offer the Commissioners an explanation for each project contained herein.

Quyanaqpak, and best wishes in your coming endeavor.

**NORTH SLOPE BOROUGH  
PLANNING & COMMUNITY SERVICES DEPARTMENT**  
P.O. Box 69  
Barrow, AK 99723  
Phone: (907) 852-0320  
Fax: (907) 852-0322



**Gordon R. Brower, Director**

## **PUBLIC NOTICE**

### **NORTH SLOPE BOROUGH CAPITAL IMPROVEMENT PROGRAM**

### **PROJECT REVIEW COMMITTEE (PRC) WORKSHOP FOR CIP ORDINANCE 2020-10**

The PRC is holding public meetings on April 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup>, 2020 to review and consider capital project requests and provide recommendations to the Planning Commission and Mayor for **Capital Improvement Program Ordinance 2020-10**. Meetings will be held at NSB Assembly Chambers at 1274 Agvik Street in Barrow, Alaska, and broadcast to community teleconference centers.

NSB Assembly Room beginning at 9:30am  
Wednesday April 1<sup>st</sup>, Thursday April 2<sup>nd</sup>, & Friday, April 3<sup>rd</sup>, 2020

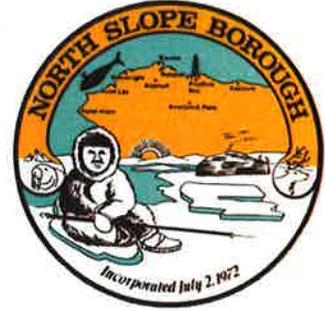
**Workbooks available to review at Village Teleconference Centers**

For agenda, meeting material, information, or questions  
Contact CIP Specialists Nok Acker [Nok.Acker@north-slope.org](mailto:Nok.Acker@north-slope.org)  
Or Susan Kittick-Atos [Susan.Kittick-Atos@north-slope.org](mailto:Susan.Kittick-Atos@north-slope.org)  
(907) 852-0320

# North Slope Borough

## OFFICE OF THE MAYOR

P.O. Box 69  
Barrow, Alaska 99723  
Phone: 907 852-2611 or 0200  
Fax: 907 852-0337 or 2595



*Harry K. Brower, Jr., Mayor*

### Memorandum

To: NSB All Users  
From: Harry K. Brower, Jr., Mayor *HB*  
Date: January 29, 2019  
Subject: CIP Project Review Committee\_05-19

---

In accordance with the CIP goals and policies that were established to address future growth and development on the North Slope, I have appointed the following members and an alternate to the CIP Project Review Committee. This Committee is responsible for the coordination and review of CIP proposed project requests for future funding.

**Members:**

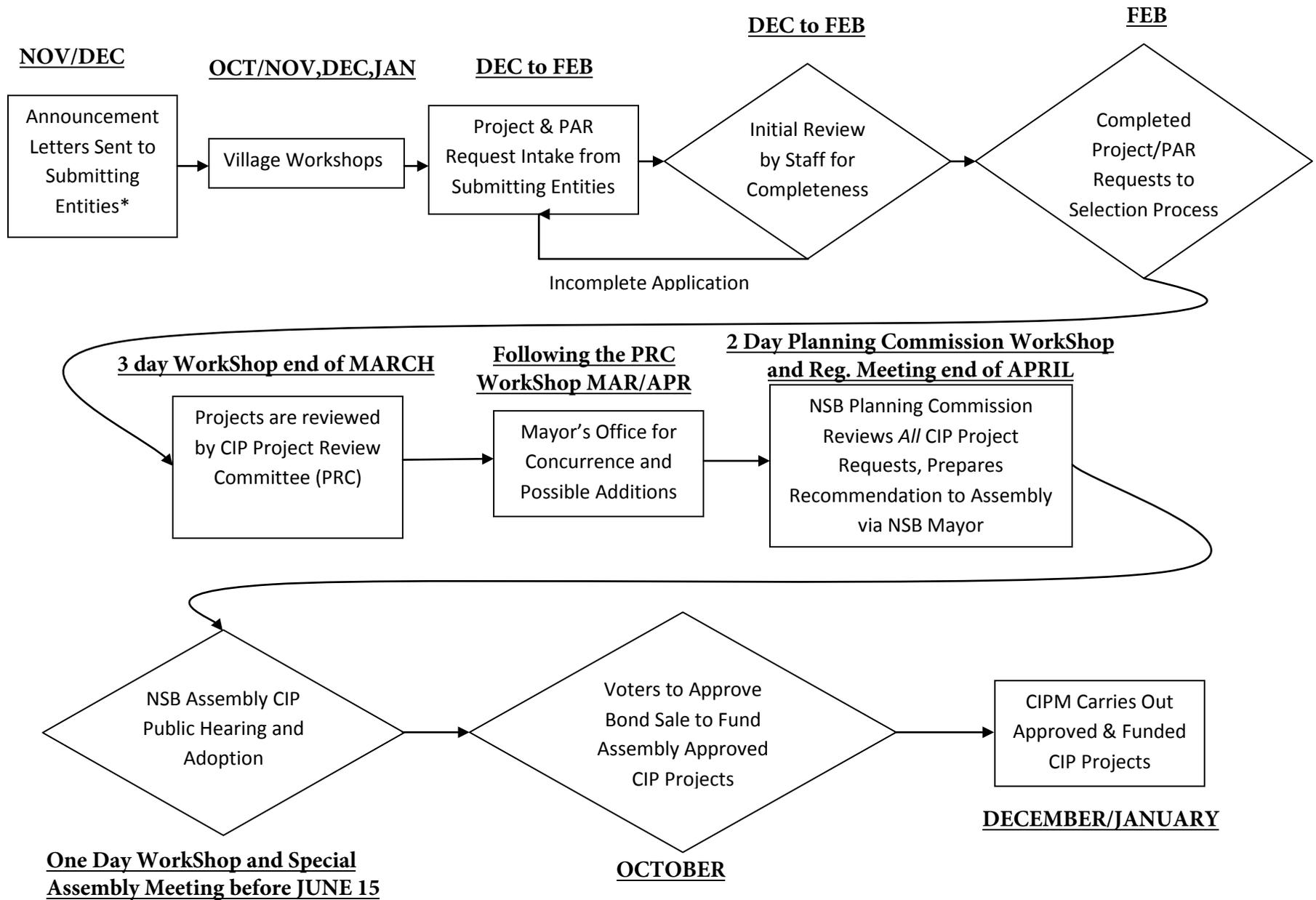
Scott Danner, Director, Public Works Department  
Lars Nelson, Deputy Director, Housing Department  
Eben Hopson, Director of Administration and Finance  
Bernadette Adams, CIPM Director  
Matt Dunn, Enterprise Fund Business Manager, Public Works

**Alternate:**

Kenneth Robbins, Chief Advisor to the Mayor

# NORTH SLOPE BOROUGH

## Annual New CIP Project Submittal and Selection Process



\*"Submitting Entities" include Village/City/IRA Councils, NSB Departments, NSBSD 1/2012

**NORTH SLOPE BOROUGH PLANNING COMMISSION  
RESOLUTION 2010-16**

**A RESOLUTION ADOPTING AMENDED CIP PROJECT SELECTION CRITERIA  
FOR DETERMINING NON-DISCRETIONARY, PRIORITY – DISCRETIONARY AND  
DISCRETIONARY CIP PROJECTS**

**WHEREAS**, the Planning Commission is charged under North Slope Borough Code of Ordinances 19.30.050 (B) with the responsibility to annually review the Capital Improvements Program (CIP) of the North Slope Borough and submit its recommendation to the Assembly; and

**WHEREAS**, in performance of this charge it is necessary to establish criteria whereby CIP project proposals can be evaluated; and

**WHEREAS**, as the North Slope Borough is preparing a more detailed 6 Year CIP plan existing selection criteria need to be updated to reflect this new approach.

**NOW, THEREFORE BE IT RESOLVED:**

**THAT** the North Slope Borough Planning Commission adopts the following amended CIP project selection criteria attached as Exhibit 1; and

**THAT** a copy of this Resolution be forwarded to the North Slope Borough Clerk.

INTRODUCED: October 28, 2010  
ADOPTED: October 28, 2010

Paul Bodfish Sr.  
Paul Bodfish, Sr., Chairman  
10-28-2010  
Date

Eli Nakupiak, Clerk  
Eli Nakupiak  
Date 10-28-10

## **CRITERIA FOR DETERMINING NON-DISCRETIONARY, PRIORITY- DISCRETIONARY AND DISCRETIONARY CIP PROJECTS**

(As approved and recommended on February 14, 1985, January 22, 1997 and December 15, 1997 by the CIP Policy Recommendation Committee and approved or amended by the North Slope Borough Planning Commission on February 28, 1985, December 18, 1996, January 30, 1997, July 31, 1997, November 20, 1997 December 18, 1997 and October 28, 2010.)

### **Non-Discretionary<sup>i</sup>:**

**A Non-Discretionary project is one that is a *verified* emergency; is a borough responsibility; and is related to life health and safety. Few projects will qualify for this classification. Specific criteria include:**

1. The NSB has been formally warned or a notice of violation issued by local, state or federal authorities that a borough facility will be closed or fines levied in the next year unless a plan of action is prepared or a corrective effort made.
2. When a structural failure of a borough building is imminent and has been attested to in writing by a licensed engineer or architect, and the building is an essential facility for the life, health, safety, and educational (primary & secondary) services for borough residents and the cost of corrective measures is the most efficient solution.
3. Where environmental conditions are such that without immediate action an actual and a verifiable and documented imminent threat to public health exist and relates to a borough power or responsibility.
4. Where a risk assessment has been conducted that documents a capital investment is prudent so as to avoid the imminent or very near term failure of a vital borough facility or function.

### **Priority Discretionary:**

1. Projects that are listed in the borough's "6 Year CIP Plan" in the year indicated and are designed to support the borough's existing capital assets and level of service and not expand them.

In addition, projects may be considered Priority Discretionary or given added emphasis if they meet one of the following:

2. Where a new project will generate a significant cost saving/reduction to the Borough operating budget and is documented as such by appropriate analysis;
3. A project that has a significant local employment impact or serves to equalize employment impacts across the borough.
4. A project which leverages a significant amount of outside funding.

### **Discretionary Projects**

1. All other projects

---

<sup>i</sup> For a project to receive "Non-Discretionary" status under items 1 – 4, there must be written confirmation as indicated submitted with the project request.



# NORTH SLOPE BOROUGH BOND CAPACITY – FY2021

CIP Project Review Committee April 1-3, 2020



# DEBT SCHEDULE BY FISCAL YEAR As Of December 31, 2019

Fiscal Year	Principal	Interest	Total	Net of Subsidy
2020	43,285,000	6,653,224	49,938,224	49,655,604
2021	64,095,000	9,825,411	73,920,411	73,623,029
2022	53,080,000	6,625,028	59,705,028	59,559,461
2023	40,190,000	4,269,531	44,459,531	44,432,088
2024	23,185,000	1,593,750	24,778,750	24,778,750
2025	7,475,000	759,000	8,234,000	8,234,000
2026	4,645,000	461,250	5,106,250	5,106,250
2027	3,130,000	229,000	3,359,000	3,359,000
2028	1,450,000	72,500	1,522,500	1,522,500
<b>Total</b>	<b>240,535,000</b>	<b>30,488,694</b>	<b>271,023,694</b>	<b>270,270,684</b>



## DEBT SCHEDULE BY Bond Series As Of December 31, 2019

GO Bond Series	Principal	Interest	Total	Net of Subsidy
Series 2019 B	3,375,000	415,381	4,150,381	4,150,381
Series 2019 A	65,900,000	7,790,736	73,690,736	73,690,736
Series 2018 B	13,045,000	1,730,125	14,775,125	14,775,125
Series 2018 A	58,160,000	7,714,000	65,874,000	65,874,000
Series 2017 B	10,840,000	2,614,000	13,454,000	13,454,000
Series 2016 C	11,825,000	2,516,625	14,341,625	14,341,625
Series 2016 B	10,035,000	507,875	10,542,875	10,542,875
Series 2016 A	2,460,000	217,000	2,677,000	2,677,000
Series 2015 B	10,245,000	1,838,221	12,083,221	12,083,221
Series 2014 B	13,800,000	2,111,650	15,911,650	15,911,650
Series 2013 A	5,525,000	569,625	6,094,625	6,094,625
Series 2012 A	4,070,000	312,000	4,382,000	4,382,000
Series 2009 B	30,895,000	2,151,456	33,046,456	32,293,446
<b>Total</b>	<b>240,535,000</b>	<b>30,488,694</b>	<b>271,023,694</b>	<b>270,270,684</b>



**PROPOSED MAXIMUM  
ISSUANCE OF NEW DEBT  
FOR FY2021  
\$75,000,000**

---



# 2019 - 2024 SIX YEAR CAPITAL PLAN

North Slope Borough, Alaska



## Contents

1. Community Profiles	
• Anaktuvuk Pass.....	2
• Atqasuk.....	3
• Kaktovik.....	4
• Nuiqsut.....	5
• Point Hope.....	6
• Point Lay.....	7
• Utqiagvik.....	8
• Wainwright.....	9
2. CIPM Current Projects.....	10 - 15
3. Repair and Replacement Capital funding needs by ordinance section, and Exhibit Graphs.....	16-19
5. 2019 Six-Year Capital Plan Projections.....	20—23
6. Planning Department & Mayor's Recommendations.....	24



The 2019 6-Year Capital Plan has been developed from several sources:

1. Projects recommended for funding by the CIP Policy Review Committee and the Planning Commission are the basis for the first year (2019) in the Plan.
2. Previously approved projects that were identified as “phased” have the subsequent phases budgeted in the Plan.
3. The NSB Repair & Replacement Schedule has been used to calculate the remaining useful life of all of the Borough’s building, equipment and infrastructure assets. This comprehensive database is used to forecast when capital upgrades are necessary by comparing the estimated useful life of an asset and its many parts to their installation dates.

**NORTH SLOPE BOROUGH PLANNING COMMISSION  
RESOLUTION 2019-09**

**A RESOLUTION RECOMMENDING THAT THE NORTH  
SLOPE BOROUGH ASSEMBLY APPROVE THE 2019  
CAPITAL IMPROVEMENTS PROGRAM**

**WHEREAS**, North Slope Borough Municipal Code (NSBMC) § 19.30.050(B) requires the North Slope Borough Planning Commission (Planning Commission) to annually review the Borough's Capital Improvements Program (CIP) and submit its recommendations on the plan to the Assembly; and

**WHEREAS**, pursuant to NSBMC 3.15.010, the Capital Improvements Program consists of a six-year plan that includes the projects in the capital budget, outlines proposed capital projects for the following five years and provides a summary of unfinished capital projects; and

**WHEREAS**, the Department of Planning and Community Services developed a proposed 2019 six year capital plan based on projects proposed by Borough departments and each North Slope community; and

**WHEREAS**, on May 30, 2019, the Planning Commission considered said plan during its Regular meeting.

**NOW THEREFORE BE IT RESOLVED:**

The North Slope Borough Planning Commission recommends that the North Slope Borough Assembly approve the Capital Improvements Program attached as Exhibit 1.

**THAT** a copy of this Resolution be forwarded to the North Slope Borough Clerk.

INTRODUCED:

May 30, 2019

ADOPTED:

May 30, 2019

Adrian N. Korte (Acting)

Paul Bodfish Sr., Chairman

Date: May 30 2019

Lupita Henry (Acting)

Lupita Henry, Clerk

Date: 5-30-2019

# Anaktuvuk Pass



## 2019 6 Year Capital Improvement Plan

### 2019-10 Recommended Projects

NSBSD Infrastructure Improvements, \$500,000 for AKP	AW Street Lighting, \$21,000 for AKP
AKP Water and Sewer Connections, \$1,850,000	AW Power Generation Upgrade, \$143,000 in AKP
AW Water Systems Major Repairs, \$395,000 for AKP	Light Duty Vehicles, \$94,000 in AKP
AW Sewer Systems Major Repairs, \$131,000 for AKP	S&R Fuel Truck with 5000 gal tank, \$62,000 in AKP
AW Water System Equipment, \$24,000 for AKP	Village Heavy Equip Major Repair, \$55,000 in AKP
AW Power Grid Preservation, \$71,000 for AKP	AKP Heavy Equipment Replacement, \$104,000
AW Water Dist. Pump Variable Frequency Drives, \$50,000 for AKP	Windows Server 2016 Active Directory Upgrades, \$140,000 split amongst 8 communities

### 2019 City Council Priorities

1. Water/Sewer Hook Ups
2. Subdivision
3. Multi-Purpose Building
4. Renovation / Upgrading Residential Housing
5. Dust Control



### Status of Major Projects

- A rock crusher had been delivered to AKP to address the gravel shortage
- The AKP museum access road has not yet been constructed due to gravel shortage
- A scope of work for the AKP secondary water well is underway
- 10 water and sewer service connections have been recommended for funding this year; there are still additional connections needed that remain unfunded
- Construction of the new sewage lagoon and the secondary leach field have been completed and received final ADEC approval
- AKP airport permanent lighting has been repaired and is operational
- The AKP power plant upgrade design is complete
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use
- New generation LED street light fixtures have been delivered and installed

### Anticipated Capital Needs

- Subdivision development / relocation
- Additional water & sewer connections
- Power plant upgrade
- Airport: fencing and snow removal equipment
- Snow fence repair and upgrade
- The NSB Administration Building/Public Works building replacement facility



### Anaktuvuk Pass Comprehensive Plan Select Capital Needs

Research alternative energy feasibility	Replace Public Works building
Address housing overcrowding/construct additional homes	Develop recreational facilities, including outdoor ballfield, indoor facility for youth and indoor playground
Dust control	Relocate NSB Administrative Office
Retrofit homes for energy efficiency	Upgrade and expand City Hall building
Install airport restrooms for weekend/holiday use	Evaluate potential contamination at former power plant

# Atqasuk

## 2019 6 Year Capital Improvement Plan



### 2019-10 Recommended Projects

NSBSD Infrastructure Improvements, \$500,000 in ATQ	AW Power Generation Upgrade, \$143,000 in ATQ
AW Water Systems Major Repairs, \$219,000 in ATQ	Light Duty Vehicles, \$94,000 in ATQ
W&S Facilities HVAC & Digital Control Upg, \$78,000 in ATQ	S&R Fuel Truck with 5000 gal tank, \$62,000 in ATQ
AW Sewer Systems Major Repairs, \$73,000 for ATQ	ATQ Heavy Equipment Replacement, \$51,000
AW Water System Equipment, \$46,000 for ATQ	Vill. Upfund Heavy Equip. Major Repair, \$60,000 in ATQ
ATQ Airport Rehabilitation, \$2,100,000	Windows Server 2016 Active Directory Upgrades, \$140,000 split amongst 8 communities
AW Power Grid Preservation, \$146,000 for ATQ	
AW Street Lighting, \$21,000 in ATQ	

### Status of Major Projects

ATQ cemetery roads design is on hold due to NSB and community concerns regarding gravel	Meade River School renovations are funded to completion
The design complete for extending the water & sewer system Construction is on hold to determine if the upgrades to the Wainwright and Point Hope WWTPs are successful and can be emulated in Atqasuk. The Atqasuk WWTP is at capacity and cannot add additional service connections.	The design for the Fuel Tank Truck Loading Racks is complete and construction process is underway
	The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use

### 2019 City Council Priorities

Water/Sewer Connections for Off-Grid Homes	Increased Water/Sewer Capacity for Off Grid Homes
Rock/Gravel/Clay Source Survey and Study	Natural Gas Development Analysis
Gravel for Airport and Water/Sewer Connections	Expand Housing Capacity or Possible Apartments

### Atqasuk Comprehensive Plan Select Capital Needs

Develop Atqasuk Transmission Line	Playground equipment upgrade / replacement
Upgrade roads to both cemeteries	Develop a teen center / senior center
Rehabilitate existing vacant housing	Develop a daycare facility
Construct new homes	Develop a washeteria with showers
Continue evaluation of local material source	

### Anticipated Capital Needs

Water / sewer connections	Road to Utqiagvik
Major upgrades to the power plant	Waste heat loop upgrade

# Kaktovik

## 2019 6 Year Capital Improvement Plan



### 2019-10 Recommended Projects

NSBSD Infrastructure Improvements, \$500,000 in KAK	Village Power Distribution, \$1,500,000 for KAK
AW Water Systems Major Repairs, \$389,000 in KAK	AW Power Generation Upgrade, \$143,000 in KAK
W&S Facilities HVAC & Digital Control Upg, \$78,000 in KAK	Light Duty Vehicles, \$94,000 in KAK
AW Sewer Systems Major Repairs, \$130,000 for KAK	S&R Fuel Truck with 5000 gal tank, \$62,000 in KAK
AW Water System Equipment, \$41,000 for KAK	Vill. Upfund Heavy Equip. Major Repair, \$55,000 in KAK
Waste Heat Recovery, \$3,700,000 for KAK	Windows Server 2016 Active Directory Upgrades, \$140,000 split amongst 8 communities
AW Power Grid Preservation, \$71,000 for KAK	

### 2019 City Council Priorities

1. Waste Heat Trace at the Harold Kaveook School
2. Emergency Evacuation Bridge / Road to Mainland
3. Utilidor Upgrades / Water & Sewer Plant
4. School PA System
5. Museum / Multi-Purpose Building / Shop / Teen Center / Heritage Center
6. Housing

### Status of Major Projects

Performance testing for WWTP upgrades is underway  
Waste heat loop is in design

The power plant upgrade is complete

The work plan for the KIC tank farm remediation has recently completed

The outfall sewage line replacement was funded and an RFP for design work will be released soon

The south water tank is currently being repaired

The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use

Additional street lighting fixtures have been purchased and will be installed when they arrive in the village

### Kaktovik Comprehensive Plan Select Capital Needs

Continue to improve utilities, infrastructure, and facilities for resilience. Employ feasible alternative energy sources.

Protect and preserve fresh water source

Monitor and overcome permafrost subsidence

Impacts to facilities and infrastructure

Upgrade sewer system capacity (work is in progress) The power plant upgrade is complete

Evaluate wind power generation (in design)

Develop a non-impactful snow dump site

Improve street lighting (recently completed)

### Anticipated Capital Needs

Snow Fences

Recreational / multi-purpose facilities

Coastal erosion mitigation

Old airport site remediation

Increase gravel stockpile reserve

Landfill containment improvements

Year-round water pumping source



# Nuiqsut

## 2019 6 Year Capital Improvement Plan



### 2019-10 Recommended Projects

NSBSD Infrastructure Improvements, \$500,000 in NUI	AW Street Lighting, \$21,000 in NUI
Road Improvements, \$1,900,000	AW Power Generation Upgrade, \$143,000 in NUI
AW Water Systems Major Repairs, \$405,000 in NUI	Light Duty Vehicles, \$94,000 in NUI
AW Power Grid Preservation, \$71,000 for NUI	NUI Heavy Equipment Replacement, \$51,000
AW Sewer Systems Major Repairs, \$135,000 for NUI	S&R Fuel Truck with 5000 gal tank, \$62,000 in NUI
AW Water System Equipment, \$49,000 for NUI	Village Upfund Heavy Equip Major Repair, \$55,000 in NUI
W&S Facilities-HVAC & Digital Control Upgrades, \$78,000 in NUI	Windows Server 2016 Active Directory Upgrades, \$140,000 split amongst 8 communities

### Status of Major Projects

- The lift station pumps at Trapper School have been installed and are operational
- The design for the waste heat loop recovery was temporarily on hold; the design contractor will begin work shortly
- The design for the fuel tank truck loading racks is complete and a construction contractor has been hired
- The design for the power plant upgrade is complete and is currently out for bid
- Design is complete for water/sewer connections, fire protection area expansion, & larger main but lacks construction funding
- Vertical support members for gas skidder are installed at Alpine. The gas skid module and tower are under construction in Louisiana with estimated shipping to Alpine on the 2019-2020 ice road
- The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use

### 2019 City Council Priorities

1. Nuiqsut Airport Runway (*funded project*)
2. City Building and City Property Upgrades and Renovations
3. Cultural Heritage Center
4. Natural Gas Hook-up on Nutaagvik and Ericklook Streets
5. Freshwater Lake Road Upgrade (ongoing)
6. Nuiqsut Access Roads Surface Upgrade
7. Road Access to Lots on Freshwater Lake Road

### Anticipated Capital Needs

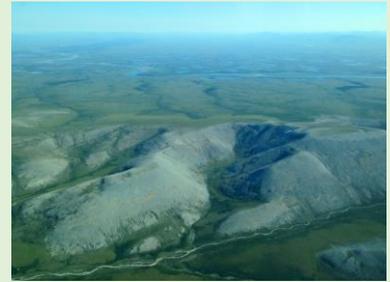
- Road resurfacing is needed throughout the village
- PW Shop Replacement
- Water and sewer extensions to new subdivision
- Community washeteria

# Point Hope

## 2019 6 Year Capital Improvement Plan



2019-10 Recommended Projects	
NSBSD Infrast. Improve., \$500,000 for PHO	Power Generation Upg., \$143,000 in PHO
AW Water Dist. Pump Variable Frequency Drives, \$50,000 for PHO	W&S Facilities-HVAC & Digital Control Upgrades, \$78,000 in PHO
Water System Major Repairs, \$752,000 in PHO	Light Duty Vehicles, \$94,000 in PHO
Secondary Water Source, \$3,595,000 in PHO	PHO Heavy Equip Replacement, \$103,000
Heat Trace Upgrades, \$2,072,000 in PHO	S&R Fuel Truck with 5000 gal tank, \$62,000 in PHO
AW WWTP Upgrades, \$266,000 in PHO	Village Upfund Heavy Equip Major Repair, \$55,000 in PHO
AW WWTP Upgrades, \$266,000 in PHO	Windows Server 2016 Active Directory Upgrades, \$140,000 split by 8 communities
Sewer Systems Maj Repairs, \$251,000 in PHO	
Water Sewer Equipment, \$33,000 in PHO	
Power Grid Preservation, \$71,000 in PHO	



Status of Major Projects
Approximately 1/3 of the water & sewer heat trace panels have been replaced and the others are expected to be replaced by October
The design work for upgrades to the wastewater treatment plant are complete and an RFP will be issued this summer for construction
The flooring in Tikigaq School is nearly complete
The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use
Additional street lighting fixtures have been purchased and will be installed when they arrive in the village



2019 City Council Priorities
1. Erosion
2. Ice Cellar
3. Evacuation Road / Shelter
4. Gravel and Rock
5. New Housing
6. New Landfill
7. Integrity of NSB Facilities
8. Streetlights
9. Water and Sewer Upgrade
10. Washeteria
11. Boat Ramp for North and South sides
12. New Recreation Teen Center

Anticipated Capital Needs
Landfill relocation farther from the village
Continued water storage tank upgrades
The old NSB Search & Rescue building needs upgrades
Evacuation road
Secondary water source
Health Clinic upgrades
Coastal erosion mitigation
Road resurfacing
Sewer main line upgrades



Point Hope Comprehensive Plan Select Capital Needs	
Assess feasibility of airport relocation	Research alternative energy feasibility, especially wind
Construct evacuation road	Additional recreational facilities, including ball field, meeting places, teen center, playgrounds, removable docks
Address housing overcrowding	
New water source location	Repair needed for community facilities: Health Clinic, Senior Center, City Hall, PW Building, Tribal Office
Seek gravel source	

# Point Lay

## 2019 6 Year Capital Improvement Plan



### 2019-10 Recommended Projects

NSBSD Infrastructure Improvements, \$500,000 in PIZ	AW Street Lighting, \$20,000 in PIZ
AW Water Systems Major Repairs, \$196,000 in PIZ	AW Power Generation Upgrade, \$143,000 in PIZ
Water Dist. Pump Variable Frequency Drives, \$50,000 for PIZ	Fire Station Floor Repair Replacement, \$900,000 in PIZ
PIZ Drinking Water Source Development, \$3,600,000	Light Duty Vehicles, \$94,000 in PIZ
W&S Facilities-HVAC & Digital Control Upgrades, \$78,000 in PIZ	S&R Fuel Truck with 5000 gal tank, \$62,000 in PIZ
AW Sewer Systems Major Repairs, \$65,000 for PIZ	PIZ Heavy Equipment Replacement, \$110,000
AW Water System Equipment, \$81,000 for PIZ	Vill. Upfund Heavy Equip Major Repair, \$55,000 in PIZ
AW Power Grid Preservation, \$131,000 for PIZ	Windows Server 2016 Active Directory Upgrades, \$140,000 split amongst 8 communities



### Status of Major Projects

Conceptual alternatives for water and sewer system with community drainage and stabilization planning document is currently under review	The man camp to replace itinerant housing and make more housing available to residents is complete and currently in use
The new snow fence has been installed	The sewage outfall pipeline upgrade is complete
12 sewage holding tanks have been installed and the issues with anchoring have been fixed	A new refuse truck is on order and will be delivered this summer
The septage receiving station will be installed in early to mid 2020, replacing the need for a sewage lagoon	Additional street light fixtures for the boat ramp and block 900 are in route to the community
	New bleachers are being purchased for Kali School

### Anticipated Capital Needs

The water storage tank needs a roof replacement, insulation, and recoating	Structural piling improvements due to subsidence after fill and drainage improvements have been made
Electrical metering upgrades are needed	Auger truck with 30 ft. pile depths
Replacement for dump truck is needed	An alternative above-ground water & sewer system

### Point Lay Comprehensive Plan Select Capital Needs

Abandon wastewater system as needed and install individual holding tanks	Gravel source investigations and assess gravel stockpile
Street lighting to boat ramp / dock	Develop outdoor ballfield
Fix and maintain areas of subsidence that have affected roadway	Reopen washeteria
Renovations for older homes and home weatherization improvements	Develop a childcare facility

# Utqiagvik

## 2019 6 Year Capital Improvement Plan



### 2019-10 RECOMMENDED PROJECTS

NSBSD Infrastructure Improvements, \$500,000 in BRW	Light Duty Vehicles, \$94,000 in BRW
Barrow Arctic Research Center Road, \$3,000,000	BRW Wildlife Facility, Phase II, \$11,342,000
Gaswell Road Upgrade, Phase I, \$1,900,000	Shop II Upgrade, \$675,000
BUS Service Connections Upgrades, \$647,000	BRW Heavy Equip Replacement Shop II, \$1,282,000
BUS Pump Station 5 Upgrades, \$2,227,000	Barrow Sanitation Shop III, \$350,000
BUS Repairs & Upgrades, \$2,000,000	S&R Fuel Truck with 5000 Gallon Tank, \$62,000
East End Barrow Utilities Installation, \$1,500,000	Barrow Heavy Equipment Major Repairs, \$390,000
BRW Landfill Phase V Development, \$1,700,000	Windows Server 2016 Active Directory Upgrades, \$133,000 split amongst 8 communities



### STATUS OF MAJOR PROJECTS

- Residential Learning Center design is complete and renovation is anticipated to begin this summer
- Construction of phase I of the Tom Gordon Expressway is underway
- Design upgrades to Gaswell Road from Cakeeater to the Landfill/Maagaq Road will begin this summer
- Design should begin soon for upgrades to Pump Station 5
- The NARL natural gasline replacement project is on hold pending construction funding
- The design for the new cell 4 and closure of cell 2 are complete. Construction is funded and will begin soon
- The design for the new Iļisaġvik College campus is in concept phase. Additional funding will be needed to complete design and for construction
- New antennas have been installed at Walakpa and the computer upgrade is complete
- A new PSO/jail facility is in design and will be completed once land is purchased for the facility
- The BHS pool renovation design is nearly complete and there is funding for construction
- Land assessment and purchase negotiations are underway for an Integrated Behavioral Health Campus
- Pump Station 4 work is complete
- The Barrow Gas Field Microturbines project is complete
- A new fire engine for Barrow arrived last summer



### ANTICIPATED CAPITAL NEEDS

Ipalook Elementary School and Hopson Middle School are both in need of major maintenance upgrades, including playgrounds	A NSB consolidated administrative facility will be needed
New PSO / jail facility	A seawall for erosion control is needed. The Army Corps of Engineers/NSB project to address coastal erosion has community support for federal funding
Additional water and sewer connections are needed	
Complete the Residential Learning Center remodel	



# Wainwright

## 2019 6 Year Capital Improvement Plan



### 2019-10 Recommended Projects

NSBSD Infrastructure Improvements, \$500,000 in AIN	AW Power Grid Preservation, \$72,000 for AIN
AIN Water Treatment Plant Upgrade, \$9,558,000	AW Power Generation Upgrade, \$142,000 in AIN
AW Water Storage Tank Upgrades, \$2,400,000 for AIN	Light Duty Vehicles, \$92,000 in AIN
AW Water Systems Major Repairs, \$644,000 in AIN	S&R Fuel Truck with 5000 gal tank, \$62,000 in AIN
Water Dist. Pump Variable Frequency Drives, \$50,000 for AIN	Wainwright Heavy Equipment Replacement, \$701,000
W&S Facilities HVAC & Digital Control Upgr, \$77,000 in AIN	Vill. Upfund Heavy Equip. Major Repair, \$55,000 in AIN
AW Sewer Systems Major Repairs, \$215,000 for AIN	Windows Server 2016 Active Directory Upgrades, \$140,000 split amongst 8 communities
AW Water System Equipment, \$26,000 for AIN	

### 2019 Wainwright Steering Committee Priorities

- |   |  |
|---|--|
| 1. Replace Public Works Building          | 8. Community Wide Drainage and Culverts – Road Lifting |
| 2. Power Plant                            | 9. Cultural Center / Daycare and Community Center      |
| 3. Water & Wastewater Treatment Plant     | 10. Expansion of Panik Road                            |
| 4. Gravel Acquisition                     | 11. Tapqaq Bar Access Road                             |
| 5. Alak School Upgrade                    | 12. Coastal Erosion Mitigation                         |
| 6. Expansion of Maqqik road and driveways | 13. Airport Passenger Terminal                         |
| 7. Housing                                | 14. Mini Hub   |



### Status of Major Projects

The sewage outfall pipeline replacement is complete	The design work for the landfill expansion is underway
Alak School renovation design has been funded and will begin soon	The wastewater treatment plant lift station upgrade is in design
The design for new a new snow fence is nearly complete and property easement negotiations are underway	The man camp to replace itinerant housing and make more housing available to residents is complete
The temporary Public Works facility is almost complete	An RFP has been released for Tank 1 design repair
Demolition of the existing Public Works building and construction of the new permanent facility will occur while services to the community are provided from the temporary building	Water storage upgrade design work will begin this summer
	The water plant SCADA system design is 95% complete. The design firm is working on 100% completion with bid documents. Currently, there is not funding for construction

### Wainwright Comprehensive Plan Select Capital Needs

- Goal 1. Develop a cultural center and daycare center
- Goal 2. Potential airport relocation, docking facility and boat launch at Tupkak Bar Road
- Goal 3. Facility demolition recycling program, flag winter transportation routes for snowmachine travelers
- Goal 4. Develop multi-use facility
- Goal 5. Fiber optic upgrade

# Current Capital Improvements Financial Summary \*

\* per NSBMC 11.040(a)(1)

PAST FUNDS    CURRENT FUNDS    PROJECT CLOSING

6 YEAR PLAN FUTURE FUNDING    UPF    UPFUND/UPFUND REQUEST

CAPITAL PROJECTS BY ORDINANCE SECTION		PROJECT START FY	PROJECT CLOSE FY	TOTAL APPROPRIATIONS TO DATE	CURRENT UNENCUMBERED (April 2019)	CURRENT ENCUMBERED (April 2019)	2019-10 FUNDING	Fiscal Year														
								2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>Section 6 - Educational Facilities</b>																						
06-187	District-wide Facility Upgrades (succeeded by 06-201)	2007	2019	\$9,169,000	\$746,068	\$132,197		2007														
06-192	Kali School Major Renovations	2010	2019	\$11,125,000	\$196	\$223,499																
06-195	Tikigaq School Major Renovation & Gym Addition	2012	2019	\$40,642,000	\$1,375,385	\$278,283																
06-196	KAK Kaveolook School Gymnasium Addition	2012	2019	\$16,523,000	\$140,331	\$0																
06-197	Meade River School Renovation	2014	2023	\$15,019,000	\$1,164,344	\$6,420,762													UpF	UpF		
06-199	BRW Residential Learning Support	2015	2023	\$3,000,000	\$2,672,947	\$20													UpF	UpF		
06-201	District-wide Infrastructure Improvements	2017	TBD	\$9,928,000	\$3,438,145	\$5,378,673	\$4,000,000												UPF	UPF	UPF	UPF
06-202	BHS Renovation Phase I	2018	TBD	\$8,000,000	\$7,000,000	\$1,000,000													UPF		UPF	
06-203	Alak School Renovation Phase I	2018	TBD	\$2,740,000	\$2,740,000	\$0														UpF		
06-204	Ilisagvik College New Facility Design Phase I	2018	TBD	\$1,000,000	\$1,000,000	\$0														UpF	UpF	UpF
<b>Section Totals</b>				<b>\$105,406,000</b>	<b>\$9,537,417</b>	<b>\$12,433,434</b>	<b>\$4,000,000</b>															
<b>Section 7 - Roads, Street and Watercourses</b>																						
07-230	Platting and Survey of Dedicated Rights of Way NSB Properitie	1997	2019	\$614,000	\$58,310	\$197,997		1997														
07-239	AW Snow Fencing Upgrades	2002	2019	\$7,703,000	\$2,259,941	\$259		2002														
07-241	AW Emergency Response	2002	2019	\$6,064,000	\$1,423,226	\$102,896		2002														
07-250	AW Culvert Repair & Replacement	2006	2019	\$710,000	\$53,224	\$500		2006														
07-251	BRW Arctic Research Center Road	2007	2023	\$12,713,000	\$233,786	\$4,769,630	\$3,000,000												UpF			
07-264	AKP Museum Road	2010	2019	\$1,667,000	\$1,185,276	\$55,728																
07-267	ATQ Cemetery Road Upgrade & Repair Design	2012	2019	\$250,000	\$213,699	\$0																
07-268	BRW Coastal Erosion Mitigation	2013	TBD	\$12,900,000	\$1,952,286	\$192,960													UpF	UpF	UpF	
07-269	PHO Coastal Erosion Mitigation & Mining	2013	TBD	\$4,330,000	\$2,603,291	\$378,000													UpF	UpF	UpF	
07-270	BRW Nunavaak Road Upgrade	2014	2022	\$500,000	\$85,332	\$4,884														UpF		
07-271	PHO Road Resurfacing	2015	2022	\$400,000	\$389,264	\$0														UpF		
07-272	AW Gravel	2016	TBD	\$9,151,000	\$8,384,949	\$272,890													UPF	UPF	UPF	
07-273	AW Road Stabilization Upgrade	2016	2023	\$870,000	\$851,283	\$0													UPF			
07-274	Point Lay Grading & Drainage Improvements	2016	2021	\$1,000,000	\$751,601	\$55,638																
07-275	Point Hope New Subdivision Roads	2016	2019	\$375,000	\$365,770	\$0																
07-276	East Barrow Subdivision Roads	2016	TBD																UPF	UPF		
07-277	Barrow Road Improvement	2017	TBD	\$613,000	\$612,057	\$0	\$1,900,000												UpF	UPF	UPF	
07-278	Nuiqsut Road Improvements	2018	TBD	\$294,000	\$206,870	\$70,705														UPF	UPF	UPF
07-279	Barrow Gaswell Road Upgrades Phase I	2018	TBD	\$100,000	\$100,000	\$0	\$1,900,000												UpF	UPF	UPF	UPF
<b>Section Totals</b>				<b>\$59,860,000</b>	<b>\$21,423,299</b>	<b>\$6,031,382</b>	<b>\$6,800,000</b>															
<b>Section 8 - Public Housing</b>																						
08-166	AW Residential Housing Development	2014	TBD	\$20,500,000	\$4,277,300	\$227,625													UPF		UPF	
<b>Section Totals</b>				<b>\$20,500,000</b>	<b>\$4,277,300</b>	<b>\$227,625</b>	<b>\$0</b>															

**2017 6 Year Capital Plan**  
per NSBMC 3.15.050 (C)

CAPITAL PROJECTS BY ORDINANCE SECTION		PROJECT START FY	PROJECT CLOSE FY	TOTAL APPROPRIATIONS TO DATE	CURRENT UNENCUMBERED (April 2019)	CURRENT ENCUMBERED (April 2019)	2019-10 FUNDING	Fiscal Year													
								2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Section 9 - Water Facilities</b>																					
09-121	Utilidor Major Repairs/Upgrades (BUS) (succeeded by 10-125)	2001	2019	\$10,981,000	\$169,734	\$710,406		2001													
09-132	BRW Water & Sewer Expansion	2008	2019	\$33,112,702	\$64,333	\$466,965		2008													
09-137	ATQ Facility Connection Water & Sewer Connections	2010	TBD	\$1,049,998	\$175,951	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-138	NUI Facility Water & Sewer Connections	2010	2019	\$5,312,002	\$264,655	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	---
09-142	New BRW Residential Water & Sewer Connections	2011	TBD	\$2,050,000	\$15,000	\$150,132		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-145	AIN Water Treatment Plant Upgrades	2011	2023	\$1,060,000	\$214,674	\$0	\$9,558,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-148	AKP Facility Connections Water & Sewer Connections	2012	2022	\$750,000	\$12,320	\$262,353	\$1,850,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-149	AW Water Storage Tank Upgrades	2012	TBD	\$11,292,000	\$1,270,420	\$3,014,584	\$2,400,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-150	AW Water Plant System Upgrades	2013	2022	\$450,000	\$216,695	\$74,312		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-151	Point Lay Water & Sewer System Upgrade	2015	2022	\$485,000	\$454,974	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-152	BUS Service Connection Upgrades	2016	TBD	\$240,000	\$107,442	\$108,736	\$647,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-153	BUS SCADA Systems Design	2016	2022	\$191,000	\$13,597	\$12,636		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-154	AW Residential Water Holding Tanks	2016	TBD	\$508,000	\$502,922	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-155	AW Water System Upgrades	2017	TBD	\$4,917,000	\$3,111,303	\$1,158,911	\$3,000,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
09-156	AKP Water Well	2018	2021	\$2,305,000	\$2,305,000	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
New 09-157	AW Water Distribution Pump VFD's	2019	TBD				\$200,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
New 09-158	PIZ Drinking Water Source Development	2019	TBD				\$3,600,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
New 09-159	AW Secondary Water Source	2019	TBD				\$3,595,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
New 09-160	W&S Facilities-HVAC & Digital Control Upgrades	2019	2023				\$467,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
<b>Section Totals</b>				<b>\$72,398,702</b>	<b>\$6,594,020</b>	<b>\$5,959,035</b>	<b>\$25,317,000</b>														
<b>Section 10 - Sewage Treatment Disposal Facilities</b>																					
10-107	AW Sewage Tanks	2005	TBD	\$6,523,000	\$1,911,814	\$722,327		2005													UPF
10-111	AW Sewage Lagoon Upgrades	2013	2023	\$6,405,000	\$5,580,975	\$4,114		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-115	Kaktovik WWTP Expansion	2014	2020	\$782,000	\$90,883	\$56,550		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-117	PHO Sewer Main Line Upgrade	2014	2022	\$2,300,000	\$88,491	\$78,406		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-118	AW Treated Effluent Outfall Pipeline Upgrades	2015	2022	\$2,032,000	\$1,255,068	\$392		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-119	Point Hope Heat Trace Panel Upgrades	2016	2022	\$1,199,000	\$440,237	\$304,100	\$2,072,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-120	BUS Pump Station #5 Upgrade	2016	2023	\$303,000	\$70,723	\$0	\$2,227,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-121	PHO Vacuum Station Upgrade	2016	2020	\$639,000	\$70,723	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-122	PHO WWTP Upgrades	2016	2022	\$1,000,000	\$994,559	\$0	\$266,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-123	AW Sewer System Upgrades	2017	TBD	\$121,351	\$3,018,422	\$1,919,284	\$1,000,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-124	PIZ WWTP Receiving Station	2017	2022	\$10,047,000	\$9,040,485	\$382,000		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-125	Barrow Utilidor System Upgrades (successor to 09-121)	2017	TBD	\$5,971,000	\$2,337,713	\$2,836,888	\$2,000,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
10-126	AW Water Sewer Equipment	2018	TBD	\$548,000	\$259,509	\$132,336	\$300,000	---	---	---	---	---	---	---	---	---	---	---	---	---	UPF
<b>Section Totals</b>				<b>\$38,268,351</b>	<b>\$25,144,721</b>	<b>\$6,312,324</b>	<b>\$7,865,000</b>														



**2017 6 Year Capital Plan**  
per NSBMC 3.15.050 (C)

**CAPITAL PROJECTS BY ORDINANCE SECTION**

	PROJECT START FY	PROJECT CLOSE FY	TOTAL APPROPRIATIONS TO DATE	CURRENT UNENCUMBERED (April 2019)	CURRENT ENCUMBERED (April 2019)	2019-10 FUNDING	Fiscal Year																
							2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022			
<b>Section 14 - Public Safety Facilities</b>																							
14-116	2009	2022	\$5,566,000	\$1,213,018	\$43,584	\$900,000														UPF	UPF		
14-118	2010	2019	\$27,500,000	\$18,845	\$136,889																		
14-124	2013	2019	\$832,000	\$162,047	\$0																		
14-125	2013	2019	\$46,810,000	\$1,449,055	\$1,250,695																		
14-128	2014	2019	\$750,000	\$295,221	\$15,784																		
14-130	2016	2019	\$1,000,000	\$359,699	\$0																		
14-131	2017	TBD	\$3,003,000	\$1,170,341	\$1,401,850															UPF	UPF	UPF	UPF
14-132	2017	TBD	\$3,003,000	\$1,170,341	\$1,401,850																UPF	UPF	UPF
			<b>Section Totals</b>	<b>\$88,464,000</b>	<b>\$5,838,566</b>	<b>\$4,250,651</b>	<b>\$900,000</b>																
<b>Section 15 - Sanitary Facilities</b>																							
15-088	1999	2019	\$3,530,000	\$404,314	\$0		1999																
15-095	2004	2019	\$6,480,000	\$298,095	\$343		2004																
15-099	2009	2019	\$2,500,000	\$82,902	\$72,169																		
15-101	2011	2022	\$1,586,000	\$615,863	\$200																UPF		
15-102	2012	2019	\$4,500,000	\$61,252	\$83,986																		
15-104	2014	2023	\$20,931,000	\$6,145,833	\$256,535	\$1,700,000														UPF	UPF	UPF	UPF
15-105	2014	2020	\$23,000,000	\$7,611,084	\$534,827																		
15-106	2016	2021	\$1,983,000	\$902,820	\$46,994																		
15-107	2017	TBD	\$1,900,000	\$1,562,738	\$260,155																UPF	UPF	UPF
15-108	2018	TBD	\$400,000	\$400,000	\$0																	UPF	
			<b>Section Totals</b>	<b>\$66,810,000</b>	<b>\$18,084,901</b>	<b>\$1,255,209</b>	<b>\$1,700,000</b>																
<b>Section 17 - Communications</b>																							
17-026	2010	2021	\$11,771,000	\$1,359,004	\$825,094																		
17-027	2010	2019	\$5,000,000	\$69,757	\$75,190																		
17-032	2013	2019	\$138,000	<.14>	\$3,333																		
			<b>Section Totals</b>	<b>\$16,909,000</b>	<b>\$1,428,761</b>	<b>\$903,618</b>	<b>\$0</b>																



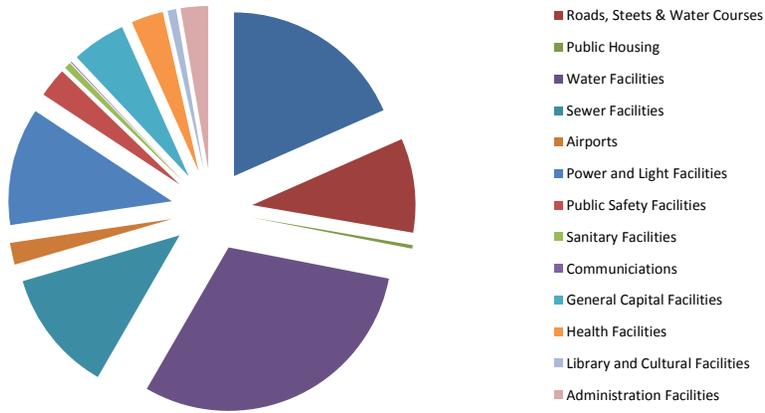
**2017 6 Year Capital Plan**  
per NSBMC 3.15.050 (C)

CAPITAL PROJECTS BY ORDINANCE SECTION		PROJECT START FY	PROJECT CLOSE FY	TOTAL APPROPRIATIONS TO DATE	CURRENT UNENCUMBERED (April 2019)	CURRENT ENCUMBERED (April 2019)	2019-10 FUNDING	Fiscal Year															
								2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		
<b>Section 19 - Health Facilities</b>																							
19-074	Sr. Bus Replacement	2012	2019	\$950,000	\$98,597	\$0		---	---	---	---	---	---	---	---	---	---	---	---	---	---		
19-075	Homeless Assistance Shelter	2016	TBD	\$470,000	\$465,979	\$0		---	---	---	---	---	---	---	---	---	---	---	---	UPF	UPF	UPF	
19-076	Behavioral Health Complex	2017	TBD	\$4,554,000	\$4,551,724	\$0		---	---	---	---	---	---	---	---	---	---	---	---	UPF	UPF	UPF	
PAR 2015-02	PHO Health Clinic Upgrades							---	---	---	---	---	---	---	---	---	---	---	---	UPF	UPF	UPF	
<b>Section Totals</b>				<b>\$5,974,000</b>	<b>\$5,116,300</b>	<b>\$0</b>	<b>\$0</b>																
<b>Section 20 - Library and Cultural Facilities</b>																							
20-001	IHC Expansion & Renovation	2006	2022	\$2,701,000	\$129,006	\$0		2006															
<b>Section Totals</b>				<b>\$2,701,000</b>	<b>\$129,006</b>	<b>\$0</b>	<b>\$0</b>																
<b>Section 22 - Administrative Facilities</b>																							
22-016	AW Computer & Server Replacements	1993	TBD	\$4,358,000	\$568,457	\$183,436		1993												UPF	UPF	UPF	UPF
22-020	AW Office Machine Replacements	2007	TBD	\$1,711,000	\$225,015	\$25,690		2007													UPF	UPF	UPF
22-024	Emergency Ops Center / Joint Training Center	2012	TBD	\$4,387,000	\$97,419	\$213,550		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
22-025	JD Edwards Upgrades	2013	2023	\$2,210,000	\$497,573	\$189,824		---	---	---	---	---	---	---	---	---	---	---	---	---	UPF	UPF	
22-026	NSB Administrative Center Design	2016	TBD	\$1,200,000	\$2,586,374	\$612,500		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NEW	Windows Server 2016 Active Directory Upgrades		TBD				\$1,113,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<b>Section Totals</b>				<b>\$13,866,000</b>	<b>\$3,974,839</b>		<b>\$1,113,000</b>																
<b>TOTALS</b>		<b>TOTAL</b>		<b>\$807,284,053</b>	<b>\$178,433,518</b>	<b>\$68,842,848</b>	<b>\$75,000,000</b>																

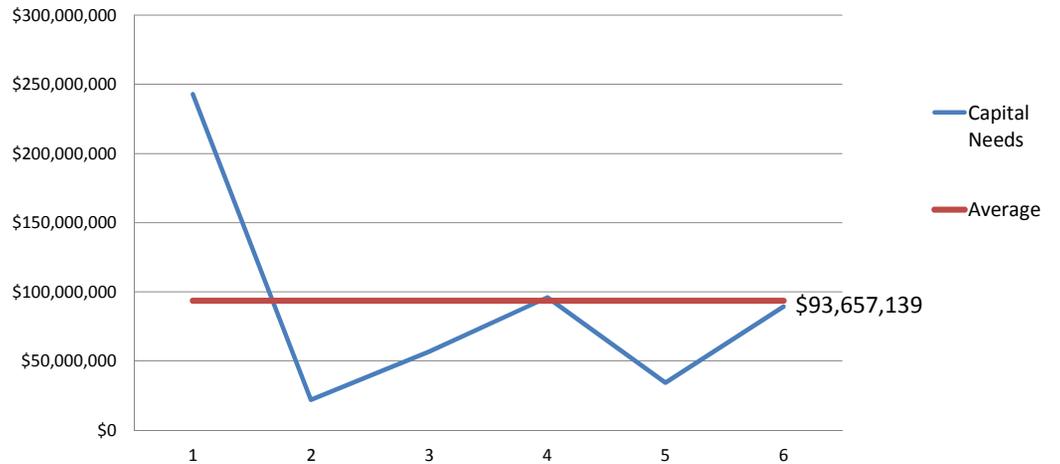
# North Slope Borough Capital Repair and Replacement Schedule Summary

Report Year	2019	Summary Appraisal of Community Buildings, Infrastructure and Equipment Capital Assets				Current Dollar Value of Systems/Components that require Renewal or Replacement during year specified (in thousands of dollars)						No. of Deferred Projects	Deferred Value	
All Communities and Service Areas		Least Remaining Life Span	Earliest Year work req'd	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
		Escalation ->		0%	2%	2%	2%	2%	2%					
Location	Asset Value	Asset Description	Section		2019	2020	2021	2022	2023	2024			Six Year Total	
<a href="#">Wainwright</a>	\$ 474,577,506	Summary	AIN		17,839	918	2,258	1,517	7,488	2,803	29	521	\$ 32,823,228	
<a href="#">Point Hope</a>	\$ 466,440,295	Summary	PHO		14,176	70	935	3,299	2,446	14,855	2	952	\$ 35,781,632	
<a href="#">Point Lay</a>	\$ 266,202,309	Summary	PIZ		22,617	2,063	2,056	6,423	888	3,373	16	2,403	\$ 37,419,372	
<a href="#">Barrow</a>	\$ 1,701,501,632	Summary	BRW		104,250	15,990	41,661	68,393	14,352	45,716	90	14,547	\$ 290,361,838	
<a href="#">Atqasuk</a>	\$ 255,844,660	Summary	ATQ		19,628	290	1,303	1,120	3,555	6,226	12	3,784	\$ 32,121,986	
<a href="#">Nuiqsut</a>	\$ 430,916,116	Summary	NUI		28,432	279	2,424	9,591	1,058	7,399	11	1,813	\$ 49,184,450	
<a href="#">Kaktovik</a>	\$ 277,277,698	Summary	BTI		17,835	1,039	1,036	2,822	718	4,210	18	3,685	\$ 27,659,919	
<a href="#">Anaktuvuk Pass</a>	\$ 259,083,023	Summary	AKP		14,952	1,366	515	2,172	2,638	2,898	1	487	\$ 24,541,314	
<a href="#">Service Area 10</a>	\$ 103,202,610	Summary	SA10		3,125	0	4,447	638	1,106	1,841	3	6,629	\$ 11,156,823	
<b>Totals</b>	<b>\$ 4,235,045,849</b>				<b>242,856</b>	<b>22,015</b>	<b>56,635</b>	<b>95,975</b>	<b>34,248</b>	<b>89,323</b>	<b>182</b>	<b>34,820</b>	<b>\$ 561,942,836</b>	

**Capital Assets by Section**

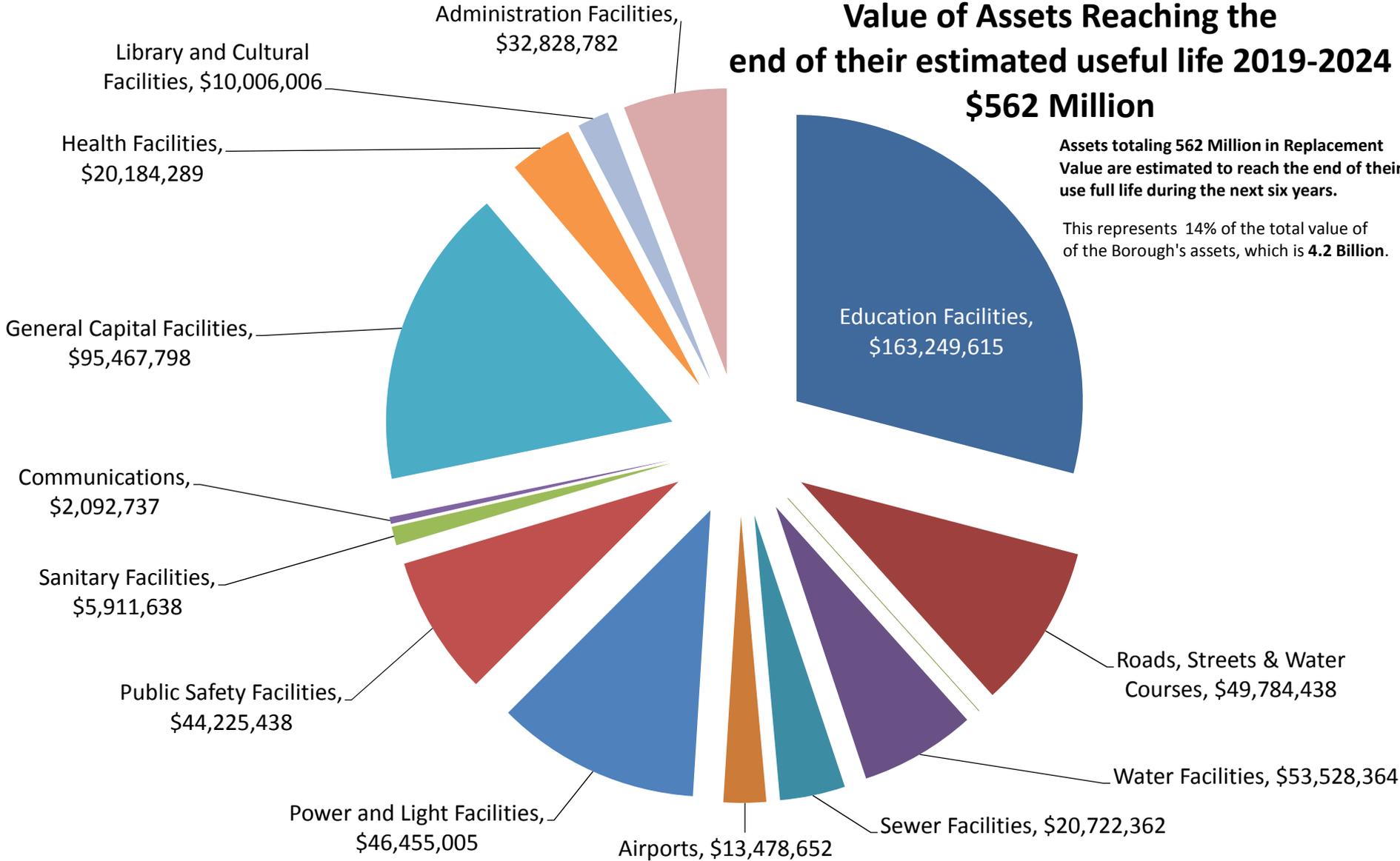


**6 yr Capital Asset Needs Trend**

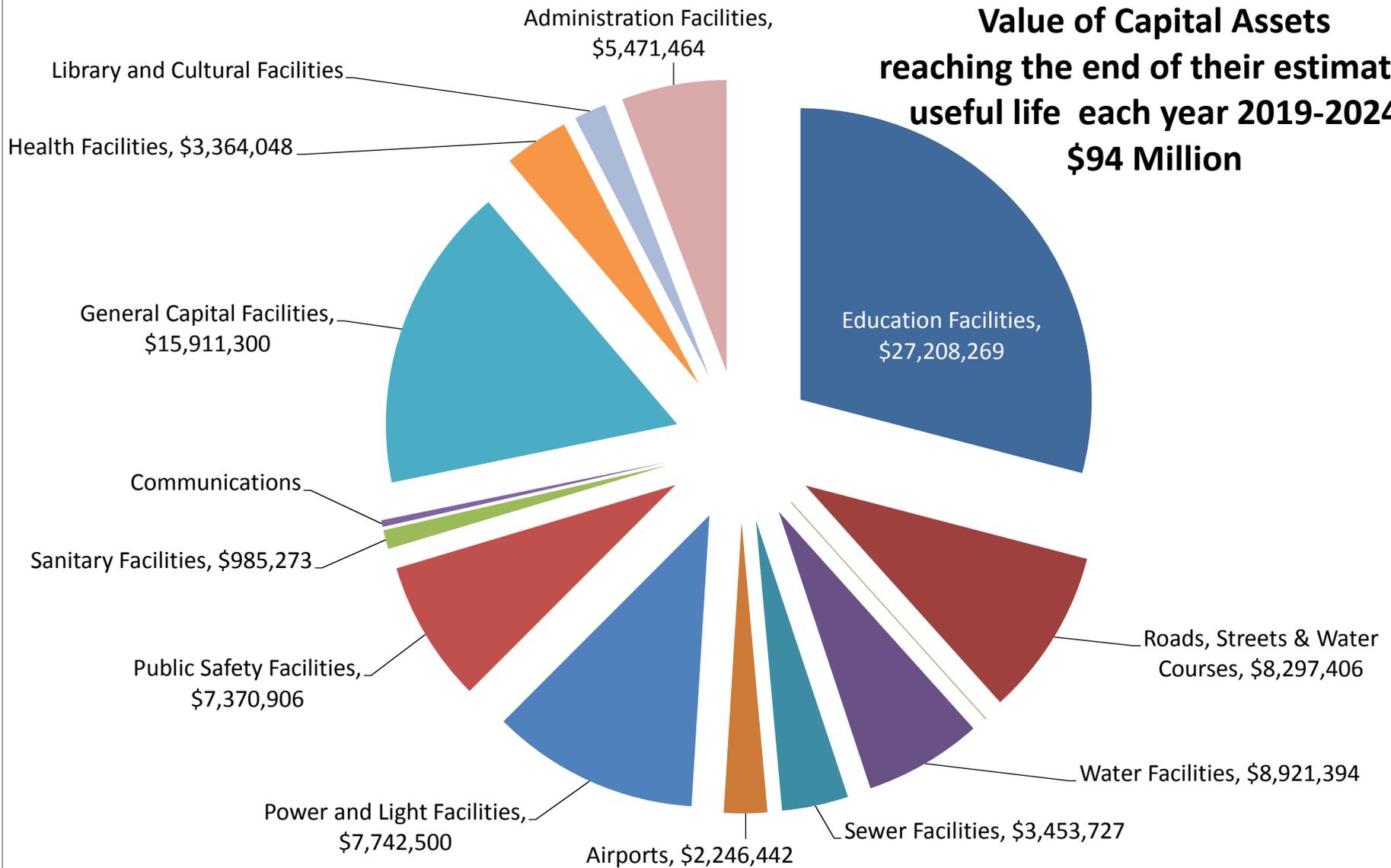


## Value of Assets Reaching the end of their estimated useful life 2019-2024 \$562 Million

Assets totaling 562 Million in Replacement Value are estimated to reach the end of their use full life during the next six years.  
This represents 14% of the total value of of the Borough's assets, which is **4.2 Billion**.



**Value of Capital Assets  
reaching the end of their estimated  
useful life each year 2019-2024  
\$94 Million**



## Proposed Minimum Annual Capital Upgrade Budget \$56.2 Million

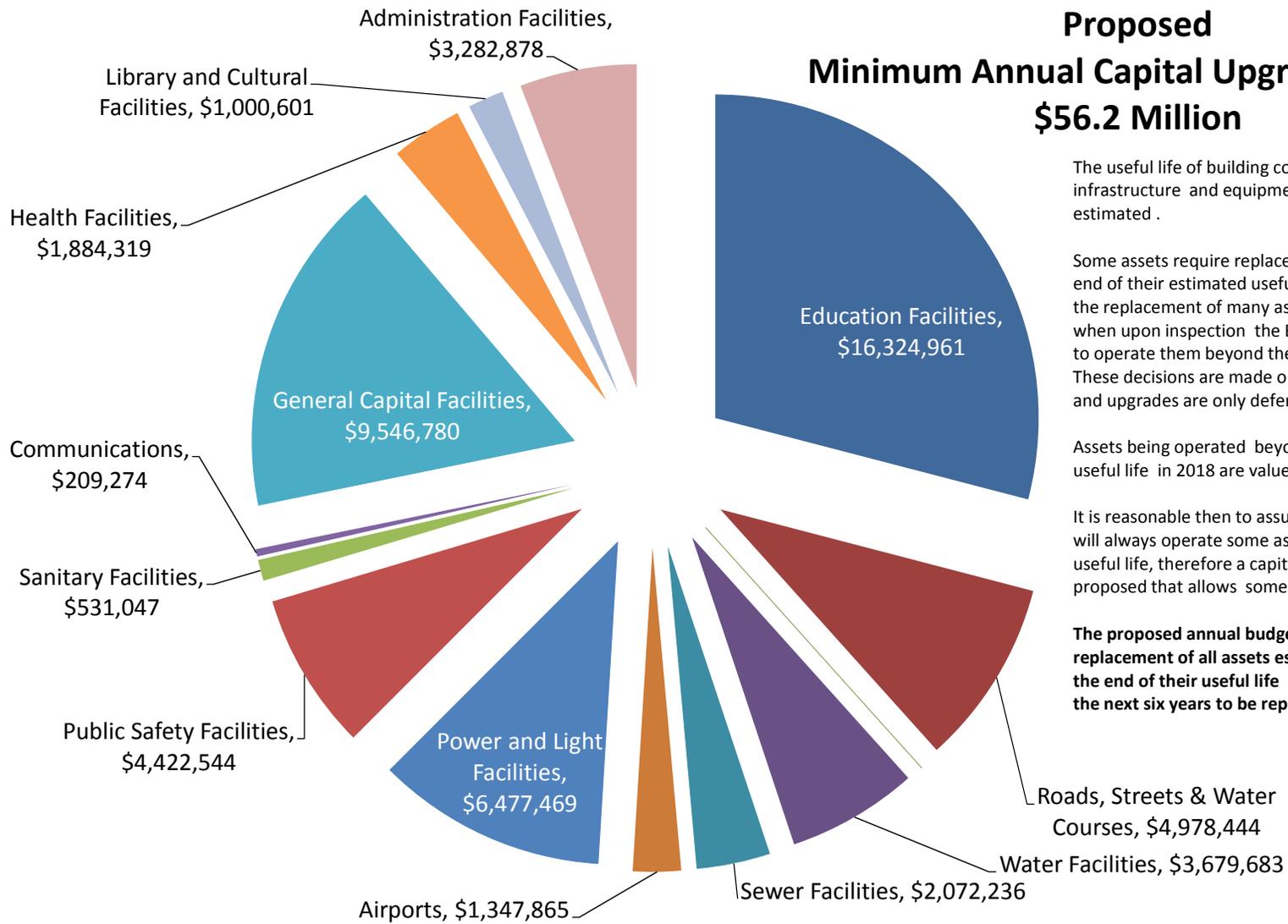
The useful life of building components, infrastructure and equipment assets are estimated .

Some assets require replacement before the end of their estimated useful life, however the replacement of many assets can be deferred when upon inspection the Borough chooses to operate them beyond their estimated useful life. These decisions are made on a case by case basis and upgrades are only deferred when they are due.

Assets being operated beyond their estimated useful life in 2018 are valued at 200 Million Dollars.

It is reasonable then to assume that the Borough will always operate some assets beyond their useful life, therefore a capital upgrade plan is proposed that allows some deferral.

**The proposed annual budget allows the replacement of all assets estimated to reach the end of their useful life within the next six years to be replaced within 10 years.**



NSB SIX YEAR CAPITAL PLAN		2019	2020	2021	2022	2023	2024
	New GO Bond	\$76,000,601	\$77,517,151	\$79,291,975	\$111,562,697	\$106,602,444	\$73,570,076
	Surplus GO Bond		\$30,000,000				
	Other (grants, private)	\$10,000,000	\$15,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$20,000,000
	<b>Total Program</b>	<b>\$86,000,601</b>	<b>\$122,517,151</b>	<b>\$99,291,975</b>	<b>\$131,562,697</b>	<b>\$126,602,444</b>	<b>\$93,570,076</b>
	Upgrades	\$61,658,601	\$118,217,151	\$89,291,975	\$98,562,697	\$76,602,444	\$93,570,076
Expansion	\$24,342,000	\$4,300,000	\$10,000,000	\$33,000,000	\$50,000,000	\$0	
<b>Project #</b>	<b>Project Description</b>						
<b>SECTION 06 - EDUCATIONAL FACILITIES</b>		<b>\$4,000,000</b>	<b>\$20,500,000</b>	<b>\$16,324,961</b>	<b>\$29,000,000</b>	<b>\$16,324,961</b>	<b>\$16,324,961</b>
<i>Capital Planning (R&amp;R) Projections not listed below</i>		\$12,324,961	\$0	\$3,324,961	\$0	\$2,724,961	\$5,124,961
<i>Expansion of existing programs listed below</i>		\$0	\$0	\$0	\$0	\$0	\$0
<i>Upgrades to existing programs listed below</i>		\$4,000,000	\$20,500,000	\$13,000,000	\$29,000,000	\$13,600,000	\$11,200,000
06-197	Meade River School Renovation <b>Final Phase</b>		Closing				
06-199	BRW Residential Learning Center		\$1,500,000	TBD	TBD	Closing	
06-201	District Wide Infrastructure Improvements	\$4,000,000	\$2,000,000	\$2,000,000	\$1,000,000		
06-202	BHS Renovation Phase 1		\$17,000,000		\$28,000,000	\$13,600,000	\$11,200,000
06-203	AIN Alak School Major Renovations			\$11,000,000			
06-204	Ilisagvik College New Design		TBD			TBD	
<b>SECTION 07 - ROADS, STREETS, &amp; WATERCOURSES</b>		<b>\$6,800,000</b>	<b>\$8,181,000</b>	<b>\$9,800,000</b>	<b>\$7,250,000</b>	<b>\$8,500,000</b>	<b>\$7,250,000</b>
<i>Capital Planning (R&amp;R) Projections not listed below</i>		\$1,178,444	\$0	\$0	\$0	\$0	\$0
<i>Expansion of existing programs listed below</i>		\$3,000,000	\$2,000,000	\$0	\$0	\$0	\$0
<i>Upgrades to existing programs listed below</i>		\$3,800,000	\$6,181,000	\$9,800,000	\$7,250,000	\$8,500,000	\$7,250,000
07-251	BRW Arctic Research Center Road	\$3,000,000				Closing	
07-268	BRW Coastal Erosion Mitigation		TBD			TBD	
07-269	PHO Coastal Erosion Mitigation & Mining		TBD			TBD	
07-270	BRW Nunavaak Road Upgrade Phase I		\$1,500,000	\$1,500,000		Closing	
07-271	PHO Road Resurfacing PH I			\$1,000,000	Closing		
07-272	NSB Gravel		\$2,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
07-273	Areawide Road Stabilization Upgrade			\$300,000		Closing	
07-274	Point Lay Grading & Drainage Improvements		TBD		Closing		
07-276	East Barrow Residential Development		\$2,000,000	\$500,000		\$2,000,000	\$500,000
07-277	AW Road Improvement Project	\$1,900,000	\$1,181,000		\$750,000		\$750,000
07-278	NUI Road Improvements		\$500,000	\$500,000	\$500,000	\$500,000	TBD
07-279	BRW Gaswell Road Improvements Ph 1	\$1,900,000	\$1,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
<b>SECTION 08 - PUBLIC HOUSING</b>		<b>\$10,000,000</b>	<b>\$0</b>	<b>\$10,000,000</b>	<b>\$0</b>	<b>\$10,000,000</b>	<b>\$0</b>
<i>Capital Planning (R&amp;R) Projections not listed below</i>		\$0	\$0	\$0	\$0	\$0	\$0
<i>Expansion of existing programs listed below</i>		\$10,000,000	\$0	\$10,000,000	\$0	\$10,000,000	\$0
<i>Upgrades to existing programs listed below</i>		\$0	\$0	\$0	\$0	\$0	\$0
08-166	AW Residential Housing Development	\$10,000,000		\$10,000,000		\$10,000,000	
<b>SECTION 09 - WATER FACILITIES</b>		<b>\$25,317,000</b>	<b>\$19,365,000</b>	<b>\$12,709,000</b>	<b>\$3,679,683</b>	<b>\$17,517,000</b>	<b>\$14,679,683</b>
<i>Capital Planning (R&amp;R) Projections not listed below</i>		\$0	\$0	\$0	\$179,683	\$0	\$179,683
<i>Expansion of existing programs listed below</i>		\$7,395,000	\$5,000,000	\$5,710,000	\$0	\$11,000,000	\$11,000,000
<i>Upgrades to existing programs listed below</i>		\$17,922,000	\$14,365,000	\$6,999,000	\$3,500,000	\$6,517,000	\$3,500,000
09-137	ATQ Facility Water & Sewer Connections Ph 1			TBD		\$8,000,000	\$6,000,000
09-142	New BRW Residential W/S Connections		\$5,000,000				\$5,000,000
09-145	AIN Water Treatment Plant Upgrades	\$9,558,000				Closing	
09-148	AKP Facility Water & Sewer Connections Ph 1	\$1,850,000	\$1,800,000		Closing		
09-149	AW Water Storage Tank Upgrades	\$2,400,000	\$5,000,000	\$3,000,000		\$2,500,000	

<b>NSB SIX YEAR CAPITAL PLAN</b>		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
09-150	AW Water Plant System Upgrades		\$715,000		Closing		
09-151	Pt Lay W/S System Upgrade, PH I Design		TBD	TBD	Closing		
09-152	BUS Service Connection Upgrades	\$647,000	\$2,400,000	\$500,000	\$500,000	\$500,000	\$500,000
09-153	BUS SCADA System - Design Phase		\$1,200,000		Closing		
09-154	AW Residential Water Holding Tanks		TBD				
09-155	AW Water System Upgrades	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000
09-156	AKP Water Well		TBD	Closing			
<b>NEW 09-157</b>	<b>AW Water Distribution Pump VFD's</b>	\$200,000	\$250,000				
<b>NEW 09-158</b>	<b>PIZ Drinking Water Source Development</b>	\$3,600,000		\$2,100,000			
<b>NEW 09-159</b>	<b>AW Secondary Water Source</b>	\$3,595,000		\$3,610,000			
<b>NEW 09-160</b>	<b>W&amp;S Facilities-HVAC &amp; Digital Control Upgrades</b>	\$467,000		\$499,000		\$517,000	
<b>SECTION 10 - SEWAGE TREATMENT DISPOSAL FACILITIES</b>		<b>\$7,865,000</b>	<b>\$9,910,000</b>	<b>\$5,250,000</b>	<b>\$4,750,000</b>	<b>\$2,750,000</b>	<b>\$4,750,000</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Upgrades to existing programs listed below</i>	\$7,865,000	\$9,910,000	\$5,250,000	\$4,750,000	\$2,750,000	\$4,750,000
10-107	AW Sewage Tanks		\$2,560,000		\$2,000,000		\$2,000,000
10-111	AW Sewage Lagoon Upgrades		\$300,000			Closing	
10-115	Kaktovik WWTP Expansion		Closing				
10-117	PHO Sewer Main line Upgrades		\$2,500,000	\$2,500,000	Closing		
10-118	AW Effluent Pipeline upgrades		\$900,000		Closing		
10-119	PHO Heat Trace Panel Upgrades - PH I	\$2,072,000			Closing		
10-120	B.U.S. Pump Station #5 Upgrade - Design Phase	\$2,227,000				Closing	
10-122	Point Hope WWTP Upgrades	\$266,000	\$400,000		Closing		
10-123	AW Sewer System Upgrades	\$1,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
10-124	PIZ WWTP Receiving Station PH II				Closing		
10-125	Barrow Utilidor Systems Upgrades	\$2,000,000	\$1,500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
10-126	Areawide Water & Sewer Equipment (successor to 18-052)	\$300,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
<b>SECTION 11 - AIRPORT TERMINAL FACILITIES</b>		<b>\$2,100,000</b>	<b>\$1,643,398</b>	<b>\$1,343,398</b>	<b>\$1,343,398</b>	<b>\$1,343,398</b>	<b>\$1,343,398</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$0	\$1,343,398	\$1,343,398	\$1,343,398	\$1,343,398	\$1,343,398
	<i>Expansion of existing programs listed below</i>	\$0	\$300,000	\$0	\$0	\$0	\$0
	<i>Upgrades to existing programs listed below</i>	\$2,100,000	\$0	\$0	\$0	\$0	\$0
11-066	NUI Airport Rehabilitation		TBD		Closing		
11-067	ATQ Airport Rehabilitation	\$2,100,000				Closing	
11-068	AW Airport Passenger Shelters PH I		\$300,000		Closing		
<b>SECTION 13 - LIGHT, POWER AND HEATING SYSTEMS</b>		<b>\$8,416,000</b>	<b>\$14,225,000</b>	<b>\$16,625,000</b>	<b>\$30,500,000</b>	<b>\$6,477,469</b>	<b>\$6,477,469</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$0	\$0	\$0	\$0	\$2,977,469	\$4,977,469
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Upgrades to existing programs listed below</i>	\$8,416,000	\$14,225,000	\$16,625,000	\$30,500,000	\$3,500,000	\$1,500,000
13-222	AW Waste Heat Recovery	\$3,700,000	\$1,750,000	\$1,500,000		Closing	
13-228	AW Tank Farm Upgrades		\$1,500,000	Closing			
13-251	AW Power Grid Preservation	\$633,000		\$250,000		\$250,000	
13-258	Village Power Distribution Grid Upgrades	\$1,500,000		\$2,000,000		\$2,000,000	
13-261	AW Fuel Truck Loading Rack Installation & Upgrades		\$1,725,000		Closing		
13-265	AW Electrical Metering Upgrades PH II			\$625,000			TBD
13-270	AW Street Lighting Phase	\$83,000		Closing			
13-274	BRW Marine Header & Pipeline Relocation PH II		TBD		Closing		

NSB SIX YEAR CAPITAL PLAN		2019	2020	2021	2022	2023	2024
13-275	BRW NARL Gas Pipeline Upgrade PH I		\$3,000,000	\$3,000,000			
13-276	BRW Gasfield Unified Upgrades		\$250,000		\$250,000		\$250,000
13-278	AKP Power Plant Upgrade			\$8,000,000		Closing	
13-279	AW Power Generation Upgrade	\$1,000,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000
13-280	BGF Pig Launcher Ph 1		\$1,100,000		\$1,000,000		Closing
<b>NEW 13-281</b>	<b>East End Barrow Utilities Installation</b>	\$1,500,000	\$1,000,000				
	AIN Power Plant Replacement		\$2,000,000		\$20,000,000		TBD
PAR 2013-05	ATQ Power Plant Upgrade		\$650,000		\$8,000,000		Closing
<b>SECTION 14 - PUBLIC SAFETY FACILITIES</b>		<b>\$900,000</b>	<b>\$7,400,000</b>	<b>\$4,422,544</b>	<b>\$4,422,544</b>	<b>\$29,422,544</b>	<b>\$4,422,544</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$3,522,544	\$0	\$2,922,544	\$2,922,544	\$2,922,544	\$2,922,544
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$25,000,000	\$0
	<i>Upgrades to existing programs listed below</i>	\$900,000	\$7,400,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
14-116	AW Fire Station Floor Replacement PH VI	\$900,000	\$900,000		Closing		
14-131	S&R Aircraft Parts & PPE		\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
14-132	NSB Public Safety Facility Ph 1 Design	\$0	\$5,000,000		TBD	\$25,000,000	
<b>SECTION 15 - SANITARY FACILITIES</b>		<b>\$1,700,000</b>	<b>\$2,700,000</b>	<b>\$4,150,000</b>	<b>\$1,000,000</b>	<b>\$2,650,000</b>	<b>\$531,047</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$0	\$0	\$0	\$0	\$0	\$531,047
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Upgrades to existing programs listed below</i>	\$1,700,000	\$2,700,000	\$4,150,000	\$1,000,000	\$2,650,000	\$0
15-101	TOS Upgrades		\$1,200,000		Closing		
15-104	Barrow Landfill Phase V	\$1,700,000	\$1,500,000	\$1,500,000	\$1,000,000	Closing	
15-107	AW Landfill Expansion		TBD	\$2,500,000	TBD	\$2,500,000	TBD
15-108	AW Dumpster Bin Replacement			\$150,000		\$150,000	
<b>SECTION 17 - COMMUNICATIONS</b>		<b>\$0</b>	<b>\$209,274</b>	<b>\$209,274</b>	<b>\$209,274</b>	<b>\$209,274</b>	<b>\$209,274</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$209,274	\$209,274	\$209,274	\$209,274	\$209,274	\$209,274
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Upgrades to existing programs listed below</i>	\$0	\$0	\$0	\$0	\$0	\$0
17-026	Boroughwide Radio Systems Upgrades PH II			Closing			
<b>SECTION 18 - GENERAL CAPITAL</b>		<b>\$16,789,000</b>	<b>\$22,100,000</b>	<b>\$12,290,000</b>	<b>\$25,240,000</b>	<b>\$20,240,000</b>	<b>\$9,546,780</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$4,099,780	\$0	\$0	\$0	\$0	\$56,780
Subtotal	<i>Expansion of existing programs listed below</i>	\$11,342,000	\$0	\$0	\$15,000,000	\$10,000,000	\$0
	<i>Upgrades to existing programs listed below</i>	\$5,447,000	\$22,100,000	\$12,290,000	\$10,240,000	\$10,240,000	\$9,490,000
18-042	AW Fire System Upgrade			\$1,500,000		Closing	
18-054	Areawide Light Duty Vehicles	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
18-065	AW High Efficiency Lighting & Facility Controls Ph IV			\$550,000		Closing	
18-099	Wildlife Facility Phase II	\$11,342,000			\$15,000,000	\$10,000,000	
18-100	AW Childcare Facilities Upgrades (BRW/NUI/PHO/AKP)		TBD				
18-101	AIN Public Works Facility Replacement PH II		TBD			Closing	
18-102	Nuiqsut Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-103	Anaktuvuk Pass Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-104	Atqasuk Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-105	Point Hope Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-106	Wainwright Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-107	Kaktovik Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-108	Point Lay Facility Upgrades		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-109	Barrow Facility Upgrades	\$675,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000

<b>NSB SIX YEAR CAPITAL PLAN</b>		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
18-110	Wainwright Heavy Equipment	\$701,000	\$500,000	\$500,000	\$500,000	\$500,000	closing
18-111	Nuiqsut Heavy Equipment	\$51,000	\$500,000	\$500,000	\$500,000	\$500,000	\$250,000
18-112	Barrow Heavy Equipment	\$2,122,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
18-113	NUI Public Works Shop Replacement - Design Phase		\$12,000,000				
18-114	ATQ Heavy Equip.	\$51,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-115	Kaktovik Heavy Equip.		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-116	PHO Heavy Equip.	\$103,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-117	PIZ Heavy Equip.	\$110,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
18-118	Village Heavy Equipment Major Repair	\$390,000	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000
18-119	Barrow Heavy Equipment Major Repair	\$390,000	\$360,000	\$360,000	\$360,000	\$360,000	\$360,000
<b>NEW 18-120</b>	<b>Heavy Equipment Replacement for Anaktuvuk Pass</b>	\$104,000	\$360,000	\$500,000	\$500,000	\$500,000	\$500,000
<b>SECTION 19 - HEALTH FACILITIES</b>		<b>\$0</b>	<b>\$12,000,000</b>	<b>\$1,884,319</b>	<b>\$19,884,319</b>	<b>\$1,884,319</b>	<b>\$1,884,319</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$1,884,319	\$0	\$1,884,319	\$1,884,319	\$1,884,319	\$1,884,319
	<i>Expansion of existing programs listed below</i>	\$0	\$2,000,000	\$0	\$18,000,000	\$0	\$0
	<i>Upgrades to existing programs listed below</i>	\$0	\$10,000,000	\$0	\$0	\$0	
19-075	Homeless Assistance Shelter (Design Development)		TBD				
19-076	Behavioral Health Complex Ph 1 Design		\$2,000,000		\$18,000,000		
PAR 2015-02	PHO Health Clinic Upgrade		\$10,000,000				
<b>SECTION 20 - LIBRARY &amp; CULTURAL FACILITIES</b>		<b>\$1,000,601</b>	<b>\$1,000,601</b>	<b>\$1,000,601</b>	<b>\$1,000,601</b>	<b>\$1,000,601</b>	<b>\$1,000,601</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$1,000,601	\$1,000,601	\$1,000,601	\$1,000,601	\$1,000,601	\$1,000,601
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$0	
	<i>Upgrades to existing programs listed below</i>						
<b>SECTION 22 - ADMINISTRATIVE FACILITIES</b>		<b>\$1,113,000</b>	<b>\$3,282,878</b>	<b>\$3,282,878</b>	<b>\$3,282,878</b>	<b>\$8,282,878</b>	<b>\$25,150,000</b>
	<i>Capital Planning (R&amp;R) Projections not listed below</i>	\$2,169,878	\$2,212,878	\$2,832,878	\$2,212,878	\$3,132,878	\$0
	<i>Expansion of existing programs listed below</i>	\$0	\$0	\$0	\$0	\$5,000,000	\$0
	<i>Upgrades to existing programs listed below</i>	\$1,113,000	\$1,070,000	\$450,000	\$1,070,000	\$150,000	\$25,150,000
22-016	AW Computer & Server Replacements	\$1,113,000	\$300,000	\$300,000	\$300,000		
22-020	AW Office Machine Replacements		\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
22-025	JD Edwards Upgrades PH II		\$620,000		\$620,000	Closing	
<b>NEW 22-026</b>	<b>BRW NSB Admin Center Design Phase</b>					\$5,000,000	\$25,000,000

# **Planning & Community Services Department and the Mayor's 2019 Capital Improvement Program Recommendations**

## **EXPANSION OF SERVICES, FACILITIES AND PROGRAMS**

- The Borough currently manages over 4.2 Billion dollars in capital assets. Assets valued over 200 Million are already being operated beyond their estimated useful life. During the next six years 562 Million in capital assets will reach the end of their estimated useful life.
- When a program expansion is considered, we should also consider where we can reduce our inventory of capital assets in order to afford it.
- Expansion of facilities and programs requiring new capital infrastructure that does not replace infrastructure being operated beyond its useful life should be avoided.

## **EQUIPMENT BUDGETS**

- The current capital budgets for equipment are not adequate.
- The Borough maintains over 1,000 pieces of light and heavy duty equipment.
- During consideration of new equipment purchases, the disposal of old equipment that is being replaced must be considered.

## **CONSOLIDATION OF FACILITIES**

- A long term strategy to reduce the total square footage of Borough offices and programs may be to consolidate Borough Facilities in each of our communities to the greatest extent possible.
- Repair/replace existing infrastructure and facilities through 2035 does not appear affordable.
- Replacement projects and PARs for replacement projects should include recommendations and budgets for the re-purposing, disposal or demolition of the existing assets they replace.

## **DESIGN STANDARDS**

- To optimize the useful lives of building systems, design standards should be developed.
- Designs need to fit the budget to insure we are receiving the highest return from capital dollars.

## **BONDING CAPACITY**

- This Capital Plan suggests that bond sales for the next six years should include a minimum of 56.2 million dollars each year to repair/replace the Borough's existing infrastructure.
- Looking for ways to unlock already approved capital dollars in the capital program is necessary to supplement shortfalls in underfunded projects or to address unfunded needs.
- General Obligation Bond sales must be supplemented with other funding sources to meet our capital needs.

## **Fiscal Needs of the North Slope Borough**

- The fiscal responsibility of providing employment opportunities, essential services and maintaining the basic capital infrastructure needs of this municipality are not sustainable without increasing revenue. We must not settle for less. We must protect our taxing authority and we must receive our share of revenue from the development of federal reserves within our boundaries.



City of Point Hope  
P.O. Box 169  
Point Hope, Alaska 99766  
(907)368-2537/2836  
Fax: (907)368-2835  
e-mail: akphogov@hotmail.com

City of Pt. Hope  
Resolution # 20-01

**A RESOLUTION OF THE CITY COUNCIL OF PT. HOPE, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 20-10 SUBMITTED BY DEPARTMENTS OF THE NORTH SLOPE BOROUGH, THE NORTH SLOPE BOROUGH SCHOOL DISTRICT AND THE CITY OF POINT HOPE.**

WHEREAS, on the 6th day of March, 2020, the City of Point Hope met and discussed Point Hope community needs relating to projects proposed by the North Slope Borough, the North Slope Borough School District and the Community of Pt. Hope; and

WHEREAS, the City Council was presented with prioritized lists of projects from all three entities submitted for consideration in the funding of CIP Ordinance 20-10; and

WHEREAS, The Point Hope City Council was asked by the NSB Planning & Community Services to prioritize all projects, including these submitted by the NSB Departments, North Slope Borough School District, as well as the City of Point Hope, submitted for the Village of Point Hope as part of the overall planning and evaluation of the CIP process; and

WHEREAS, In the NSB Assembly Resolution 10-85, "A Resolution Approving & Adopting the Policies Established to Address to the Future Growth and Development of Capital Improvement Projects on the North Slope", objectives under "Goal D: North Slope Borough will adhere to the City of Point Hope's desires regarding industrial development infrastructures, project design and priorities. Each village will determine its own priority on traditional versus modern needs", City of Point Hope and Exact CIP budget amounts will be developed. Local residents will have a major role in determining projects under these budget guidelines; and

NOW THEREFORE, BE IT RESOLVED, the City Council in Point Hope, Alaska, prioritized the projects listed below for consideration and further evaluation by the North Slope Borough Project Recommendation Committee (PRC), the North Slope Borough Planning Commission, and the North Slope Borough Mayor's Office and the North Slope Borough Assembly and recommend their funding in the order presented.

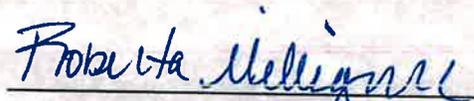
1. Erosion
2. Evacuation Road/Shelter
3. New Clinic
4. Ice Cellars
5. Gravel and Rock
6. Addition to Fuel Tank
7. New Housing
8. New Qalgi Building
9. New Land Fill
10. Integrity of NSB Facilities
11. Water and Sewer Upgrade
12. CWAT
13. Boat Ramp for North and South Sides
14. New Recreation Center

PASSED and APPROVED by a duly constituted quorum of the City of Point Hope Council this 6<sup>th</sup> day of March, 2020.



Jeffery Kowunna, Sr., Mayor

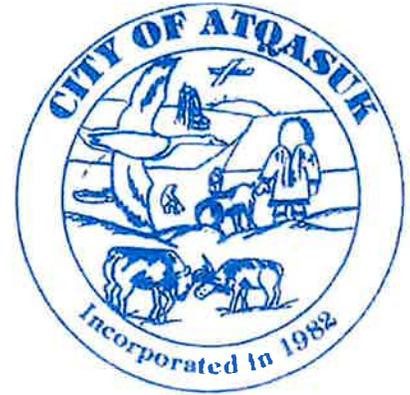
Attest:

  
Roberta Milligrock, City Clerk



# CITY OF ATQASUK

P.O. Box 91119  
Atqasuk, Alaska, 99791  
City Office Ph: 907-633-6811  
Fax: 907-633-6812  
Email: cityofatqasuk@hotmail.com



Douglas Whiteman, Mayor

## Resolution No. 2020-01

### A RESOLUTION OF THE CITY COUNCIL OF ATQASUK, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 2020-10 SUBMITTED BY THE CITY OF ATQASUK.

**WHEREAS**, on the 3rd day of February 2020, the City of Atqasuk met and discussed Atqasuk community needs relating to projects proposed for the Community of Atqasuk; and

**WHEREAS**, The City of Atqasuk was asked by the NSB Planning & Community Services to prioritize all projects, and

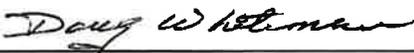
**WHEREAS**, In the NSB Assembly Resolution 10-85, "A Resolution Approving & Adopting the Policies Established to Address the Future Growth and Development of Capital Improvement Projects on the North Slope", policies were developed to be used as the guideline for funding and scheduling CIP projects. Planning Commission Resolution 85-01, "A Resolution Approving the Policies Established to Address the CIP and the Future Growth and Development on the North Slope" established these policies: "Goal D: North Slope Borough will Support Village Self-Determination" by "adhering to the desires of each village regarding industrial development infrastructure, project design and priorities. Each village will determine its own priority on traditional versus modern needs" and "Exact CIP budget amounts will be developed for each village. Local residents will have a major role in determining projects under these budget guidelines", and

**NOW THEREFORE, BE IT RESOLVED**, the City Council in Atqasuk, Alaska, prioritized the projects listed below:

1. Water/Sewer Connections for Off Grid Homes
2. Rock/Gravel/Clay Source Survey and Study
3. Gravel for Airport and Water/Sewer Connections
4. Increased Water/Sewer Capacity for Off Grid Homes
5. NSB Washateria Restoration
6. Power and Heat at Search and Rescue Equipment Hut
7. Replacement Heavy Equipment/Loader
8. Power Plant Waste Heat Exchanger Controls Assessment/Repair

for consideration and further evaluation, by the North Slope Borough Project Recommendation Committee (PRC), the North Slope Borough Planning Commission, and the North Slope Borough Mayor's Office and the North Slope Borough Assembly and recommend their funding in the order presented, and

**NOW THEREFORE, BE IT RESOLVED**, the City Council of Atqasuk, Alaska has **PASSED** and **APPROVED** by the duly constituted quorum of the Atqasuk City Council on this 3<sup>rd</sup> day of February 2020.

  
\_\_\_\_\_  
City of Atqasuk, Mayor

  
\_\_\_\_\_  
Date

Attest:

Lynne A. Truckland  
City of Atkasuk, Clerk

2-5-20  
Date



**City of Kaktovik**  
PO Box 27 • 2051 Barter Avenue, #27  
Kaktovik, Alaska 99747

www.cityofkaktovik.org  
office@cityofkaktovik.org  
907.640.6313 • 907.640.6314, fax

CITY OF KAKTOVIK, ALASKA  
RESOLUTION NO. 2020-01

**A RESOLUTION OF THE CITY OF KAKTOVIK APPROVING THE FY21 CAPITAL  
IMPROVEMENT PROJECT REQUESTS FOR THE CITY OF KAKTOVIK**

WHEREAS, on January 27, 2020, the people of the City of Kaktovik met and discussed the community needs relating to projects proposed by the North Slope Borough and City of Kaktovik; and

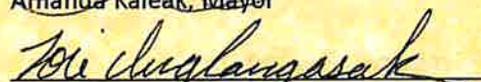
WHEREAS, in the interest of saving time and resources, the North Slope Borough coordinates with the City Councils to develop a combined priority list of the projects to submit for North Slope Boroughs concern for the basic life, safety, and health of the residents of Kaktovik.

NOW THEREFORE BE IT RESOLVED, that the City of Kaktovik, Alaska requests North Slope Borough funding for the projects listed below, in order of priority:

1. Bridge to Mainland For Subsistence
2. Multi-Purpose Subsistence Facility
3. Housing
4. Utilidor Upgrades/Water & Sewer Plant
5. Search & Rescue Building
6. Culverts/Drainage/Road Upgrades
7. Pilings/Housing Upgrades
8. Public Works Heavy Equipment

The foregoing resolution was adopted on this 27<sup>th</sup> Day of January, 2020 at a duly called City of Kaktovik city council meeting.

  
Amanda Kaleak, Mayor

  
Acting City Clerk, Tori Inglangasak



NATIVE VILLAGE OF POINT LAY IRA COUNCIL  
P.O. Box 59031, Point Lay, AK 99759  
Phone 907.833.5052 Fax 907.833.8868  
Email ptlay.ira@gmail.com



### Resolution 2020-02

#### A RESOLUTION TO ADD NATIVE VILLAGE OF POINT LAY'S PRIORITY LIST TO NSB/CIP PROJECT PLANNING LIST

**WHEREAS:** Native Village of Point Lay IRA Council is the governing body for the community of Point Lay under the 1934 Indian Reorganization Act adopted by the tribe and,

**WHEREAS:** Native Village of Point Lay IRA Council contracts the North Slope Borough for CIP projects and,

**WHEREAS:** With this list that the community of Point Lay has agreed upon, the North Slope Borough may use this as a future project list for Point Lay Strategic Plan and,

**WHEREAS:** Each item is listed by high priority to low priority by number and,

**WHEREAS:** Every letter represents individual projects that are connected to each priority numbered list and,

**WHEREAS:** The list is as followed and,

**#1. Dredge/Location for a Gravel/Silt Pit in connection with;**

- a) Foundation repair for homes, porches, and stairs.
- b) Fuel Tank leveling
- c) Replace/Repair leaning power poles.
- d) Gravel placements where subsidence/sinkholes in road systems in the community
- e) Drive ways
- f) Relevel and add foundations to the 700 Block and other lots for settling.
- g) Alternate Emergency Road to airport.
- h) Expand village-new subdivision

**#2. Housing in connection with;**

- a) Private sector: access to services, and the cost of living expense stalls home improvement in Private Sector
- b) Homelessness/overcrowding

- c) Turn over houses to the community
- #3. Water Source in connection with;
  - a) Development of lagoon water wells
- #4. Sewage holding tanks in connection with;
  - a) Promote Enhanced Truck System
- #5. Upgrade for Point Lay Volunteer Search and Rescue Building in connection with;
  - a) SAR Building: Water-heating system-maintenance repair
  - b) Drainage control for yearly flooding
- #6. Store Upgrade in connection with;
  - a) Point Lay needs larger doesn't meet the needs of the community
- #7. Washeteria/Post Office
- #8. Flooding control in connection with;
  - a) Village Culvert/drainage for flooding.
  - b) Ponds need to be emptied and filled in.
- #9- Demolition of 2 fuel tanks on Old Site-Barrier Island in connection with;
  - a) To prevent contamination into the ocean from fuel still in Old drums from degradation of tanks.
- #10-Winter Road Program
- #11-Upgrade for Fuel Farm Tank
- #12-New Site for Landfill
- #13Renewable Resources

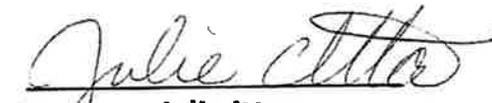
**NOW THEREFORE BE IT RESOLVED THAT:** This is the approved list for the Community of Point Lay for North Slope Borough Planning and,

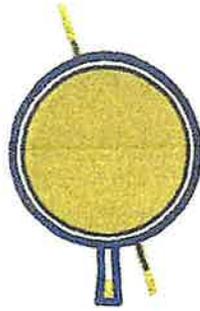
**CERTIFICATION:** This certification that the above resolution was duly adopted at a special meeting of the Native Village of Point Lay IRA Council at which time a quorum was established. This resolution was adopted by a vote of

  7   In favor   0   Opposed   0   Abstain

**ADOPTED** by duly constituted quorum of the Native Village IRA Council of Point Lay, Alaska, this   20th   day of February 2020.

  
\_\_\_\_\_  
President, Lily Anniskett

  
\_\_\_\_\_  
Secretary, Julie Itta  
2/20/20



**WAINWRIGHT**  
STEERING COMMITTEE

**WAINWRIGHT STEERING COMMITTEE  
RESOLUTION 2020-01**

**A RESOLUTION PRIORITIZING PROJECTS  
IN WAINWRIGHT, ALASKA FOR THE NORTH SLOPE BOROUGH'S  
2020 CAPITAL IMPROVEMENTS PROGRAM**

**WHEREAS**, the North Slope Borough (the "Borough") identifies and schedules public improvement projects in the North Slope communities in accordance with a Capital Improvements Program (CIP), a six-year plan for current and proposed projects that is developed with input from the communities; and

**WHEREAS**, in connection with the Borough's development and funding of the 2020 CIP, members of the Wainwright Steering Committee (the "Committee"), which consists of representatives from the Village of Wainwright, City of Wainwright and Olgoonik Corporation, have met and conferred with Borough personnel regarding projects in the community of Wainwright; and

**WHEREAS**, at the Borough's request, the Committee has developed and prioritized a list of current and proposed projects in Wainwright that the Committee believes will best benefit the community.

**NOW, THEREFORE, BE IT RESOLVED**, that the Committee hereby prioritizes and recommends funding for public improvement projects in the community of Wainwright for the Borough's 2020 CIP in the order listed below:

1. Replace Public Works Building
2. Power Plant Upgrades
3. Water & Wastewater Treatment Plant Upgrades
4. Alak School Upgrades
5. Housing
6. Retractable Boat Ramp
7. Community-wide Drainage and Culverts – Road Lifting



**WAINWRIGHT**  
STEERING COMMITTEE

8. New Landfill
9. Expansion of Panik Road
10. Expansion of Makpik Road and Driveways
11. Gravel Acquisition
12. Tapqaq Bar Access Road
13. Coastal Erosion Mitigation/Sea Wall
14. Airport Passenger Terminal
15. Cultural Center/Day Care and Community Center
16. Mini Hub

**DULY ENACTED** this 21st day of January 2020.

**CITY OF WAINWRIGHT**

By: Raymond Nashookpuk  
Its: Mayor

**VILLAGE OF WAINWRIGHT**

By: Billy Blair Patkotak, Jr.  
Its: President

**OLGOONIK CORPORATION**

By: Joseph I. Ahmaogak  
Its: Chairman



## **Anaktuvuk Pass Village Council**

P.O. Box 21030

Anaktuvuk Pass, Alaska 99721-1030

Telephone: (907) 661-3612 • (907) 661-3619

Fax: (907) 661-3613

E-mail: cityofakp@gci.net • cityofakp2@gci.net

City of Anaktuvuk Pass

### **CITY COUNCIL RESOLUTION**

Resolution No. 2019-01

**A RESOLUTION OF ANAKTUVUK PASS, ALASKA PRIORITIZING PROJECTS FOR THE CIP ORDINANCE 2010-10 SUBMITTED BY DEPARTMENTS OF THE NORTH SLOPE BOROUGH, THE North Slope BOROUGH SCHOOL DISTRICT AND THE CITY OF ANAKTUVUK PASS**

Whereas, on the 8<sup>th</sup> day of March 2019, the City of Anaktuvuk Pass met and discussed the community needs relating to projects proposed by the North Slope Borough the North Slope Borough School District and the Community of Anaktuvuk Pass; and

WHEREAS, the City Council was presented with prioritized list of projects from all three entities submitted for considerations in the funding of CIP Ordinance 2010-10; and

WHEREAS, The Anaktuvuk Pass City Council was asked by the NSB Planning & Community Services to prioritize all projects, including these submitted by NSB Departments, North Slope Borough School District, as well as the City of Anaktuvuk Pass, submitted for the Village of Anaktuvuk Pass as part of the overall planning and evaluation of the CIP process; and

WHEREAS, In the NSB Assembly Resolution 10-85, : A Resolution Approving & Adopting the Policies Established to Address to the Future Growth and Development of Capital Improvement Projects on the North Slope, "objectives under "Goal D: North Slope Borough will adhere to the City of Anaktuvuk Pass' desires regarding industrial development infrastructures, project designs and priorities. Each village will determine its own priority on traditional versus modern needs, City of Anaktuvuk Pass and Exact CIP budget amounts will be developed. Local residents will have a major role in determining projects under these budget guidelines; and

NOW THEREFORE, BE IT RESOLVED, the City Council of Anaktuvuk Pass, Alaska, prioritized the projects listed below for consideration and further evaluation by the North Slope Borough Project Recommendation committee (PRC), the North Slope Borough Planning Commission, and the North Slope Boroughs Mayor's Office and the North Slope Borough Assembly and recommends their funding in the order presented,

1. Water/Sewer Hook Ups
2. Subdivision

- 3. Multipurpose building
- 4. Renovation/ Upgrading Residential Housing
- 5. Dust Control

PASSED and APPROVED by the duly constituted quorum of the Anaktuvuk Pass City Council this 8th day of March, 2019.

Charles S. Hugo

Charles Hugo, Vice Mayor

Attest:

Amos Ahgook

Amos Ahgook, Bookkeeper



**CITY OF NUIQSUT, ALASKA  
RESOLUTION NO. 2018-04**

**A RESOLUTION OF THE CITY COUNCIL OF NUIQSUT, ALASKA  
APPROVING THE PRIORITIZATION OF CAPITAL IMPROVEMENT  
PROJECTS FOR FISCAL YEAR 2019.**

WHEREAS, Section 2.04.010 of the Nuiqsut Municipal Code of Ordinances specifies that an annual Capital Improvements Program is to be submitted by the Mayor to the City Council for consideration at the same time the operating budget is proposed for each fiscal year; and

WHEREAS, the Nuiqsut City Council met and discussed a Nuiqsut community Capital Improvement Program project prioritization in public forum at the May Regular City Council meeting conducted on May 14, 2018; and

WHEREAS, enough time has been provided for community feedback on the prioritization list drafted at the May 14, 2018 Regular City Council Meeting,

THEREFORE, BE IT RESOLVED, the City Council in Nuiqsut, Alaska, has prioritized community projects, and that the following represents, in hierarchical order, the official Fiscal Year 2019 Capital Improvement Project Program:

- 1) Nuiqsut Airport Runway
- 2) City Building and City Property Upgrades and Renovation
- 3) Cultural Heritage Center
- 4) Natural Gas Hook-up on Nutaagvik and Ericklook Streets
- 5) Freshwater Lake Road Upgrade
- 6) Nuiqsut Access Roads Surface Upgrade
- 7) Road Access to Lots on Freshwater Lake Road

PASSED and APPROVED by the duly constituted quorum of the Nuiqsut City Council  
of this 11<sup>th</sup> day of June 2018.

  
\_\_\_\_\_  
Honorable Steve Eric Leavitt, Mayor

Attest:

  
\_\_\_\_\_  
Ms. Elaine Garner  
Acting City Clerk, City of Nuiqsut

Page #	Project #	Type	Requesting Entity	Location	Project Name	\$277,627,000 Amount Requested	\$9,811,000 LOI Requested
<b>SECTION 06 EDUCATION FACILITIES</b>							
1	06-199	UpFund	NSBSD	BRW	Residential Learning Center	\$4,500,000	\$1,500,000
9	06-201	UpFund	NSBSD	AW	Districtwide Infrastructure Improvement	\$8,295,000	
13	06-202	UpFund	NSBSD	BRW	Barrow High School Major Facility Replacement	\$32,367,000	
19	06-203	UpFund	NSBSD	AIN	Alak School Renovation Phase I	\$8,276,000	
27	06-204	Up fund	Ilisagvik	BRW	Ilisagvik College Design	\$8,476,000	\$4,500,000
57	06-NEW-1	NEW	NSBSD	BTI	Kaveolook School Replacement	\$20,000,000	
61	06-NEW-2	NEW	NSBSD	AW	Districtwide Technology Upgrades	\$500,000	
<b>Section Total</b>						<b>\$82,414,000</b>	<b>\$6,000,000</b>

**SECTION 07 PUBLIC ROADS, STREETS, WATERCOURSE & FLOOD CONTROL**

65	07-272	UpFund	PW	AW	NSB Gravel	\$7,250,000	
69	07-276	UpFund	PW	BRW	East Barrow Lot Roads	\$5,007,000	
73	07-277	UpFund	PW	AW	AW Road Improvement Project	\$1,180,000	
77	07-279	UpFund	PW	BRW	Gaswell Road Upgrade Phase I	\$2,400,000	
<b>Section Total</b>						<b>\$15,837,000</b>	<b>\$0</b>

**SECTION 08 PUBLIC HOUSING FUND**

81							
<b>Section Total</b>						<b>\$0</b>	<b>\$0</b>

**SECTION 09 WATER FACILITIES**

85	09-142	UpFund	PW	BRW	BUS New W-S Service Connections	\$5,794,000	
89	09-145	UpFund	PW	AIN	Water Treatment Plant Upgrade	\$6,490,000	
93	09-148	UpFund	PW	AKP	AKP Water And Sewer Connections Phase I	\$3,377,000	

Page #	Project #	Type	Requesting Entity	Location	Project Name	Amount Requested	LOI Requested
97	09-149	UpFund	PW	AW	AW Water Storage Tank Upgrades	\$12,527,000	
101	09-150	UpFund	PW	AW	AW Water Plant SCADA Systems Upgrades	\$909,000	
105	09-152	UpFund	PW	BRW	BUS Service	\$1,789,000	
109	09-153	UpFund	PW	BRW	BUS SCADA Monitoring System	\$2,123,000	
113	09-155	UpFund	PW	AW	Areawide Water Systems Upgrades	\$3,000,000	
117	09-158	UpFund	PW	PIZ	PIZ Drinking Water Source Development	\$2,158,000	
121	09-159	UpFund	PW	AW	AW Secondary Water Source Development	\$8,345,000	
125	09-NEW-1	NEW	PW	AIN	AIN W&S System Major Upgrade	\$495,000	
129	09-NEW-2	NEW	PW	AW	AW WTP Process Upgrades	\$902,000	
					<b>Section Total</b>	<b>\$47,909,000</b>	<b>\$0</b>

**SECTION 10 SEWAGE TREATMENT FACILITIES**

133	10-107	UpFund	PW	AW	Areawide Sewer Tanks	\$2,640,000	
137	10-118	UpFund	PW	AW	Areawide Outfall Line Repair	\$1,247,000	
141	10-119	UpFund	PW	AW	AW Heat Trace Panel Upgrades	\$2,486,000	
145	10-120	UpFund	PW	BRW	BUS Pump Station 5 Upgrades	\$126,000	
149	10-122	UpFund	PW	AW	AW WWTP Upgrades	\$954,000	
153	10-123	UpFund	PW	AW	Areawide Sewer Systems Upgrades	\$1,500,000	
157	10-125	UpFund	PW	BRW	Barrow Utilidor System Upgrades	\$1,154,000	
161	10-126	UpFund	PW	AW	AW Water Sewer Equipment	\$400,000	
165	10-NEW-1	NEW	PW	AW	Areawide Water and Sewer Connections	\$338,000	
169	10-NEW-2	NEW	PW	AW	Areawide Seepex Pump and RAS Metering	\$1,000,000	
173	10-NEW-3	NEW	PW	AW	Areawide Lift Station Control Upgrades	\$1,000,000	
177	10-NEW-4	NEW	PW	AW	Wainwright Treatment Plant Process Upgrades	\$1,745,000	
181	10-NEW-5	NEW	PW	AW	Areawide Vacuum Station Pump Upgrades	\$1,558,000	

Page #	Project #	Type	Requesting Entity	Location	Project Name	Amount Requested	LOI Requested
					<b>Section Total</b>	<b>\$16,148,000</b>	<b>\$0</b>

**SECTION 11 AIRPORT & AIRPORT TERMINAL FACILITIES**

					<b>Section Total</b>	<b>\$0</b>	<b>\$0</b>

**Section 13 LIGHT, POWER & HEATING SYSTEM**

185	13-122	UpFund	PW	AW	Area Wide Waste Heat Recovery	\$2,313,000	
189	13-251	UpFund	PW	AW	Areawide Power Grid Preservation	\$1,255,000	
193	13-258	UpFund	PW	Village	Village Power Distribution Grid Upgrades	\$8,875,000	\$1,200,000
197	13-265	UpFund	PW	AW	Area Wide Electrical Revenue Metering (Smart Metering)	\$200,000	
201	13-278	UpFund	PW	AKP	Anaktuvuk Pass Power Plant Upgrades	\$8,000,000	
205	13-279	UpFund	PW	AW	Areawide Power Generation Upgrade	\$1,500,000	
					<b>Section Total</b>	<b>\$22,143,000</b>	<b>\$1,200,000</b>

**SECTION 14 PUBLIC SAFETY FACILITIES**

209	14-131	UpFund	S&R	AW	NSB Search and Rescue Aircraft Replacement Parts	\$2,112,000	
					<b>Section Total</b>	<b>\$2,112,000</b>	<b>\$0</b>

**SECTION 15 SANITARY FACILITIES**

215	15-088	UpFund	PW	Villages	Village Landfill Fences	\$680,000	
219	15-104	UpFund	PW	BWR	Barrow Landfill Phase V	\$5,000,000	
223	15-107	UpFund	PW	AW	Areawide Landfill Expansion	\$2,597,000	
					<b>Section Total</b>	<b>\$8,277,000</b>	<b>\$0</b>

Page #	Project #	Type	Requesting Entity	Location	Project Name	Amount Requested	LOI Requested
--------	-----------	------	-------------------	----------	--------------	------------------	---------------

## SECTION 17 COMMUNICATIONS

	<b>17-026</b>	<b>LOI</b>	<b>PD</b>	<b>AW</b>	<b>Borough Wide Radio Systems Upgrades Ph. II</b>	<b>\$0</b>	<b>\$477,000</b>
227	17-NEW-1	NEW	PD	AW	Vesta E911 System Upgrade	\$879,000	
	<b>Section Total</b>					<b>\$879,000</b>	<b>\$477,000</b>

## SECTION 18 GENERAL CAPITAL PROJECTS

233	18-054-1	UpFund	IHLC	BRW	IHLC	\$92,000	\$92,000
237	18-054-2	UpFund	WL	BRW/BTI	Wildlife Bear Patrol 2020	\$149,000	\$149,000
241	18-094	UpFund	PW	BRW	BRW Heavy Equipment Major Repair	\$390,000	
245	18-102	UpFund	PW	NUI	Nuiqsut Facility Upgrades	\$893,000	
249	18-103	UpFund	PW	AKP	Anaktuvak Pass Facility Upgrades	\$1,358,000	
253	18-104	UpFund	PW	ATQ	Atqasuk Facility Upgrades	\$440,000	
257	18-106	UpFund	PW	AIN	Wainwright Facility Upgrades	\$713,000	
261	18-107	UpFund	PW	BTI	Kaktovik Facility Upgrades	\$1,043,000	
265	18-108	UpFund	PW	PIZ	Point Lay Facility Upgrades	\$1,190,000	
269	18-109	UpFund	PW	BRW	Barrow Facility Upgrades	\$1,760,000	
273	18-110	UpFund	PW	AIN	Wainwright Heavy Equipment	\$3,029,000	
277	18-111	UpFund	PW	NUI	Nuiqsut Heavy Equipment	\$2,113,000	
281	18-112-1	UpFund	PW	BRW	Utqiagvik Heavy Equipment	\$2,817,000	
285	18-112-2	UpFund	PW	BRW	Barrow Heavy Equipment Wildlife Bobcat	\$84,000	
289	18-112-3	UpFund	Ilisagvik	BRW	Barrow Heavy Equipment Ilisagvik	\$210,000	\$210,000
293	18-114	UpFund	PW	ATQ	ATQ Heavy Equipment	\$2,444,000	
	<b>18-114</b>	<b>LOI</b>	<b>PW</b>	<b>ATQ</b>	<b>ATQ Heavy Equipment (LOI)</b>	<b>\$0</b>	<b>\$832,000</b>

Page #	Project #	Type	Requesting Entity	Location	Project Name	Amount Requested	LOI Requested
297	18-115	UpFund	PW	BTI	Kaktovik Heavy Equipment	\$2,872,000	
301	18-116	UpFund	PW	PHO	Point Hope Heavy Equipment	\$3,869,000	
305	18-117	UpFund	PW	PIZ	Point Lay Heavy Equipment	\$2,165,000	
	<b>18-117</b>	<b>LOI</b>	<b>PW</b>	<b>PIZ</b>	<b>Point Lay Heavy Equipment (LOI)</b>	<b>\$0</b>	<b>\$793,000</b>
309	18-118	UpFund	PW	Villages	Village Heavy Equipment Major Repairs	\$390,000	
313	18-120	UpFund	PW	AKP	AKP Heavy Equipment	\$2,398,000	
317	18-NEW-1	NEW	PW	BRW	BRW BUS Warm Storage Facility	\$794,000	
321	18-NEW-2	NEW	PW	AIN	Wainwright Power Plant Design Phase I	\$2,000,000	
325	18-NEW-3	NEW	PW	BRW	Condensing unit room controls upgrade	\$58,000	\$58,000
331	18-NEW-4	NEW	PW	AKP	AKP Public Works Building Replacement	\$30,000,000	
335	18-NEW-5	NEW	PW	NUI	NUI PW Maintenance-Warm Storage Replacement	\$10,996,000	
339	18-NEW-6	NEW	PW	BRW	Light Duty Shop 1 and Heavy Equipment Shop 2	\$7,021,000	
<b>Section Total</b>						<b>\$81,288,000</b>	<b>\$2,134,000</b>

**SECTION 22 Administration**

343	22-025	UpFund	A&F	AW	JD Edwards Upgrade Phase 4	\$620,000	
<b>Section Total</b>						<b>\$620,000</b>	<b>\$0</b>
						<b>GO Bond</b>	<b>LOI</b>
Total Requested						<b>\$277,627,000</b>	<b>\$9,811,000</b>
Total PRC Recommended							

**PROJECT NAME:** Residential Learning Support Center

**LOCATION:** Utqiagvik, Alaska

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 06-199

TYPE: UpFund

DATE SUBMITTED: 3/2/2020

AMOUNT REQUESTED: \$4,500,000 with \$1,500,000 through LOI

REQUESTING ENTITY: NSBSD

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** NSBSD

**2. PROJECT NAME:** Residential Learning Support Center

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The request here is for the funds needed to build a 50 bed residential facility which will be used to house students brought in from all making up the North Slope School District. As currently envisioned, The Residential Learning Support Center, will provide safe housing as well as individual nurturing / tutoring programs for students in residence while they attend classes and instruction not available at village school sites. These classes will satisfy individual student needs whether Career and Technical Education, (CTE) or college prep in nature. Many of these programs exist and are being delivered off site due to a lack of student housing.

CIP 2015-10 Contained \$2,000,000 for land identification, acquisition and preliminary design costs.

**4. PROJECT LOCATION:**

Utqiagvik

---

**PROJECT NAME:** Residential Learning Support Center  
**LOCATION:** Utqiagvik, Alaska

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$4,500,000

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Estimate	\$ 2,600,000
<b>Administration</b> (NSB project management)	NSB Project Management	Estimate	\$ 214,300
<b>Contingency</b> (if not included in other line items)	Contingency	Estimate	\$ 1,040,000
<b>Other Costs</b> (with description)	FF&E & Art	Estimate	\$ 645700
<b>TOTAL</b>			\$ 4,500,000
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

\$1,500,000 - it will be needed to get the base bid and construction activities begun

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This would be the final request for this project

**PROJECT NAME:** Residential Learning Support Center

**LOCATION:** Utqiagvik, Alaska

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Mayor's Initiative

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Expanded educational opportunities for village student and some Barrow students wanting to gain Career and Technical Education (CTE) in specialized areas.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

It will increase operational costs by an estimated approximation of \$2 million per year for the NSBSD.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Residential Learning Support Center

**LOCATION:** Utqiagvik, Alaska

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: Burkhart Croft Architects Submitted 01/28/2015

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristine Hilderbrand, Executive Director of Operations NSBSD		
Signature:	-K-	Date:	3/2/2020
Department Director Name:			
Department Director Signature:	RLA	Date:	3-2-2020

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

## 1.0 Executive Summary

### *Project Summary*

The North Slope Borough School District (NSBSD) is developing a new regional residential learning educational program. The students attending this program will come from throughout the North Slope Borough. This project will create the new Residential Learning Support Center (RLSC), a dormitory for the students who will be attending the new educational program.

### *Location*

The site for this design is located in Barrow, Alaska, immediately to the east of the Barrow High School. The site selection process for the project has not been completed and no site has been formally chosen. One of the potential sites was selected only for this design, as a "demonstration site" for the purpose of including site development issues in the design and associated cost analysis.

This specific site was chosen for this exercise because it is located the closest to Barrow High School and, because of the lot's configuration and presence of other existing buildings, it provides the greatest challenge in developing the site plan.

### *Program and Design Concept*

The program for the RLSC has been developed to support 50 students for both short-term (2-week) and long-term (1 semester) stays by students.

**Student Rooms:** Student dormitory rooms are developed to maximize the flexibility in use and organization. Rooms have been grouped into suites on both the first and second floor. Each suite contains an entry area, two sleeping rooms, toilet room, shower room, and sink area. Each sleeping room is designed to house 2 to 4 students.

Furniture for the rooms will be FF&E; it is anticipated that, when fully-occupied, the rooms will contain two bunk beds with drawers in the base, 2-4 wardrobe units, and two desks.

Gender separation of sleeping rooms will be by suite. This will provide flexibility in the number of students of each gender which can attend the program. One suite on each floor is ADA accessible.

**Staff Spaces:** Program offices are located near the front door and adjacent to the Activity Room. The reception room has direct supervision over the entry vestibule.

An apartment for resident advisors is provided on each floor, adjacent to the student suites. The apartments are 1-bedroom, and include private bathrooms and kitchens.

**Flex Rooms:** Each floor has a "flex" bedroom and "flex" full bathroom. These spaces are immediately adjacent to the staff apartments. The bedrooms are designed to serve several purposes: (1) as rooms for students who, due to illness or disciplinary issues, need individual space, (2) as guest rooms for itinerant staff members or other guests, and (3) as second

## 1.0 Executive Summary

bedrooms to be used as part of the resident advisor apartments. The bathrooms will support the flex bedrooms and also serve as an extra bathroom for students.

Common Spaces: The first floor has an Activity Room for students, designed to be a place to gather and watch TV. Adjacent to the Activity Room is the Dining Room. With seating capacity for 100, it is designed to handle and future expansion of the program.

Two kitchens will support the program. A commercial-grade warming kitchen will support meal service for the students and staff. Hot and cold foods will be prepared off-site at another fully-equipped NSB kitchen and transported to the RLSC for service. The loading dock adjacent to the kitchen will be used for delivery of food and other supplied.

A residential kitchen is located off of the Dining Room. This kitchen will be used for life-skills education and for the students to prepare snacks. Equipment will include residential refrigerators, stove, and microwaves

Study areas are provided on each floor to give students quiet places to work. On the first floor, there are two smaller enclosed study rooms between the Activity Room and the Dining Room. A larger group study room is located adjacent to the offices, just off the Activity Room, which allows the room to double as a conference room for administrative activities. On the second floor, the study area is larger and more open and overlooks the Activity Room below. This upstairs study area can be supervised from the offices below.

The dorm laundry is adjacent to the Activity and Dining Rooms and is designed for student as well as staff use. The facility includes washers, dryers, sorting table, and ironing board.

Circulation: The pile-supported building is accessed by two exterior stairs and an accessible ramp. Interior vertical circulation is provided by a centrally-located elevator and two stairs, one at each end of the sleeping wing.

Support Spaces: Support spaces provided include: boiler room, fan room, storage room and communication rooms, linen storage, and janitor closets.

An attached garage is sized to accommodate two 15-passenger vans. This portion of the building will be lower than the rest, to allow a vehicle to drive in.

### *Incorporating Cultural Identity*

To support NSBSD's roots in the values, history and language of the Iñupiat, themes and references should be incorporated in the design of the RLSC. Opportunities include:

- Literal and abstract representation of traditional Iñupiaq building, structure and art forms into interior and exterior treatments, material patterns, etc.
- Showcasing local cultural talent in carving, drums, sewing and basket making.
- Considering integration of history, through recognition of key leaders, past and present.

**Residential Learning  
Support Center**

Project No. 1420

**1.0 Executive Summary**

***Facility Design Criteria Manual***

BCA has recently updated the NSBSD Facility Design Criteria Manual. This document is used as a standard planning guide for NSBSD projects, focusing primarily on building materials and system components. Work of this project will incorporate material treatments and design standards established in that manual.



**PROJECT NAME:** Districtwide System Upgrades & Replacement

**LOCATION:** Districtwide (areawide)

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 06-201

TYPE: UpFund

DATE SUBMITTED: 3/2/2020

AMOUNT REQUESTED: \$8,295,000

REQUESTING ENTITY: NSBSD

AMOUNT RECOMMENDED: ~~8,295,000~~

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** NSBSD

**2. PROJECT NAME:** Districtwide System Upgrades & Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Provide major renovations and systems upgrades needed for providing life health and safety of students, staff, and community on a Districtwide basis for all educational complex facilities. Renovations and systems upgrades include mechanical, plumbing, electrical, communication, technology, fire protection and security, and structural systems. Renovations include finishes, restrooms, kitchens, equipment, furnishings, paint systems and/or siding, roofs, playgrounds, gymnasiums, doors/ hardware, fencing, lighting, windows, voc-ed, District owned housing, other facility components, and small additions under 2000 square feet (I.E. vestibules, storage, restrooms, and other spaces that by addition will support the improvement and security of the Ed. Complex).

District on an annual basis will prioritize the greatest CIP needs throughout the District and work closely with the NSB CIP Department to implement the project on a cost effective and efficient manner. Projects will be justified by analyzing, life safety, protection of structure, code upgrades, operational cost savings, unhoused students educational programs and staff, functional upgrades, and other criteria as required to effect prioritization. The Project funds will be used for project analysis reports, designs, investigations, construction, labor and benefits, procurements, installations, CIP administration, and other direct costs associated with delivery of the projects.

Justification: The District has an inventory of District (NSB funded) owned facilities that have a replacement value of between \$750 - \$800M. The 1% per year appropriation will extend the useful life of the facilities, resolve emergency capital improvement needs, provide major repair and upgrades to life safety and support systems, improve security, improve operations, delay costly major whole facility renovations, improve CIP's economic delivery of projects, resolve code violations, replace damaged or worn/broken equipment, fixtures, and furniture, and other related capital issues inclusive of light vehicle replacement.

**4. PROJECT LOCATION:**

DISTRICTWIDE All Villages and Utqiagvik

**PROJECT NAME:** Districtwide System Upgrades & Replacement

**LOCATION:** Districtwide (areawide)

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$8,295,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Misc. Design Costs	Annual Allowance	\$ 800,000
<b>Construction / Acquisition</b> (anticipated costs)	Misc Projects	Annual Allowance	\$ 5,600,000
<b>Administration</b> (NSB project management)	NSB Project Management	Annual Allowance	\$ 395,000
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)	Equipment(Boilers, Fire, Generators)	Annual Allowance	\$ 1,500,000
<b>TOTAL</b>			\$ 8,295,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: CIP 06-201

A. If this is a new request, indicate below whether this project could be phased and over how many years.

No phasing as this project will be requested annually and new project numbers requested annually

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Cost Breakdown will be provided at a later date.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A, Full funding \$8,295,000 Annually

**PROJECT NAME:** Districtwide System Upgrades & Replacement

**LOCATION:** Districtwide (areawide)

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Partial Appropriation request - The District has over \$100M in deferred capital maintenance and procurements. Several projects have life safety components that should be immediately addressed.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Justification: The District has an inventory of District (NSB funded) owned facilities that have a replacement value of between \$750 - \$800M. The 1% per year appropriation will extend the useful life of the facilities, resolve emergency capital improvement needs, provide major repair and upgrades to life safety and support systems, improve security, improve operations, delay costly major whole facility renovations, improve CIP's economic delivery of projects, resolve code violations, replace damaged or worn/broken equipment, fixtures, and furniture, and other related capital issues inclusive of light vehicle replacement. Please review the NSBSD FY18 CIP Six Year Plan for detailed projects.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will repair major systems and upgrade facilities which will reduce the overall maintenance and operations costs. This project will not expand facilities.

C. Indicate if this is a reoccurring upgrade or repair.

Yes, this project will be requested each fiscal year until the \$1000M in deferred major maintenance and capital procurements is significantly reduced. We are projecting this project will be our baseline capital request for the next decade.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

However, this project will reduce risks for loss of life, injury, and loss of structure (\$50M+)

**PROJECT NAME:** Districtwide System Upgrades & Replacement

**LOCATION:** Districtwide (areawide)

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Yes, please reference the RSA Engineering PAR Study.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

However, the project implementation will mitigate system failure risk which over the near and long term costs will be reduced

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: RSA Engineering Mechanical and Electrical NSBSD Facility Study

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

RSA Engineering Mechanical and Electrical Survey Appendix

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristine Hilderbrand, Executive Director of Operations NSBSD	
Signature:		Date: 3/2/2020
Department Director Name:		
Department Director Signature:		Date: 3-2-2020

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Barrow High School Major Facility Replacement

**LOCATION:** Utqiagvik, Alaska

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 06-202

TYPE: UpFund

DATE SUBMITTED: 3/2/2020

AMOUNT REQUESTED: \$32,367,000

REQUESTING ENTITY: NSBSD

AMOUNT RECOMMENDED: ~~32,367,000~~

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** NSBSD

**2. PROJECT NAME:** Barrow High School Major Facility Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

PAR & Design Phase: New construction determined to be most prudent based on extensive structural, mechanical, and electrical issues throughout the aging facility. Ongoing issues in the Vocation Education wing make renovation a costly and inadvisable solution

**4. PROJECT LOCATION:**

Utqiagvik

**PROJECT NAME:** Barrow High School Major Facility Replacement

**LOCATION:** Utqiagvik, Alaska

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

8,276,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design	Estimate	\$ 3,884,000
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Estimate	\$ 13,600,000
<b>Administration</b> (NSB project management)	NSB Project Management	Estimate	\$ 640,450
<b>Contingency</b> (if not included in other line items)	Contingency	Estimate	\$ 11,004,950
<b>Other Costs</b> (with description)	Art & Equipment	Estimate	\$ 3,236,620
<b>TOTAL</b>			\$ 32366020
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project should be phased over several years

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Total for all remaining phases ~\$109M

**PROJECT NAME:** Barrow High School Major Facility Replacement

**LOCATION:** Utqiagvik, Alaska

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Barrow High School is on the top of the list for renovations.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The project will be critical to safe & efficient delivery of services

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The project will replace existing facility and will decrease operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Barrow High School Major Facility Replacement

**LOCATION:** Utqiagvik, Alaska

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: HDL Contract # 2015-205 Submitted 10/5/2017

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristine Hilderbrand, Executive Director of Operations NSBSD	
Signature:		Date: 3/2/2020
Department Director Name:		
Department Director Signature:		Date: 3-2-2020

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

## B. EXECUTIVE SUMMARY

The Barrow High School has served as an academic, civic and cultural hub of the community for nearly 40 years and now it's time to update and repair the structure and many of the building's critical systems. The goal of this project is to develop an approach that will allow the School to continue to serve the community until 2050 and beyond.

The large school is in need of far reaching upgrade. Facility wide the heating, fire suppression, domestic hot water, fire alarm, electrical panels and distribution system are failing or no longer serviceable. Additionally, the foundation has failed in the Vocational Education building and is showing signs of failure in the Academic building addition. The foundation failure is due to ground surface thawing which has caused significant settlement that has translated into distortions, deflections and gypsum board cracking in multiple areas in the building. In some areas differential settlement is over 17 inches and is seriously deforming the building structure. Lastly, the swimming pool ventilation system is not working which has caused dangerous mold growth and damage to the structure. Repair will require extensive remediation of the toxic mold, replacement of finishes and in some cases portions of the structure. No students or school district employees are allowed in the pool area of the building.

The scope of this work and the sequencing of its execution has been carefully studied and is described in Chapter E of this report. Generally, the approach is to design the entire project addressing buildings that are failing first. Then facility infrastructure to support the school program is to be repaired or replaced. Lastly, the program buildings are to be upgraded. Consideration of construction time requirements has been applied to limit disruption to school schedules. Each year's work is planned to correspond with a consistent funding stream to help the District budget the project over the next nine years.

The proposed project phasing is outline as follows:

PHASE 1	Design entire project, construct new Voc Ed building, stabilize Academic building addition foundation.	PHASE 4	Repair Hub building
Years	2018 - 2020	Years	2023 - 2024
Cost	\$29,619,493	Cost	\$13,759,404
PHASE 2	Replace utilities to support the entire campus.	PHASE 5	Repair Academic Building
Years	2020	Years	2025 - 2026
Cost	\$5,312,266	Cost	\$11,650,751
PHASE 3	Remediate mold, repair pool and remainder of the Sports building.		
Years	2021 - 2022		
Cost	\$17,269,875		

We expect the total building construction cost to reach \$77,611,789 when it is completed in 2026.



**PROJECT NAME:** Alak School Major Facility Renovations  
**LOCATION:** Wainwright, Alaska

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 06-203  
DATE SUBMITTED: 3/2/2020  
REQUESTING ENTITY: NSBSD

TYPE: UpFund  
AMOUNT REQUESTED: \$8,276,000  
AMOUNT RECOMMENDED: ~~\$276,000~~

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** NSBSD

**2. PROJECT NAME:** Alak School Major Facility Renovations

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Phase 1 - Necessary renovations throughout the facility including but not limited to mechanical, electrical, finishes, doors, windows, grounds, exterior and interior lighting, new freezer unit, and other issues identified during the design process. Extend bay in Bus Barn and other major repairs to that facility.

Supporting information in PAR Jan 2010 CIP18-041 and RSA Engineering mechanical and electrical systems survey.

**4. PROJECT LOCATION:**

Alak School, Wainwright

---

**PROJECT NAME:** Alak School Major Facility Renovations

**LOCATION:** Wainwright, Alaska

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

8,276,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Estimate	\$ 6,000,000
<b>Administration</b> (NSB project management)	NSB Project Management	Estimate	\$ 176,000
<b>Contingency</b> (if not included in other line items)	Contingency	Estimate	\$ 1,800,000
<b>Other Costs</b> (with description)	Art Aquisition	Estimate	\$ 300,000
<b>TOTAL</b>			\$ 8,276,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 06-203

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Total for all remaining phases ~\$28M

**PROJECT NAME:** Alak School Major Facility Renovations

**LOCATION:** Wainwright, Alaska

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Renovation and Upgrade design to be under contract soon.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The current Alak school has not been renovated since it was built in 1988. The RSA Engineering study resulted in over 30 M/E Systems project needs. The Village needs a larger school bus but the garage is not deep enough to facilitate a longer bus; an bay extension is needed.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The overall project will provide for energy savings. The only expansion is a small lengthening of the current bus bay. The project is budget neutral.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Alak School Major Facility Renovations

**LOCATION:** Wainwright, Alaska

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: PAR Jan 2010; RSA M/E Study Findings

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristine Hilderbrand, Executive Director of Operations NSBSD		
Signature:	-K-	Date:	3/2/2020
Department Director Name:			
Department Director Signature:	BKA	Date:	3-2-2020

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

## 2.0 Existing Facility

---

### 2.1 Overview

#### 2.1.1 Atqasuk

Atqasuk is located inland from the Arctic Ocean on the Meade River, about 60 miles southwest of Barrow. Atqasuk has long been established as a hunting and fishing ground. Abandoned sod houses, an old cellar and gravesite near the village provide evidence of an early settlement here.

During World War II, coal was mined in the community and freighted to Barrow. During the next 10 years, the village existed under the name of Meade River. Although the population dwindled in the 1960s, former residents from Barrow moved to the community in the 1970s and re-established the village under the name of Atqasuk. The village was incorporated as a second-class city in 1982.



**Meade River School Aerial**

Atqasuk has a population of 203 (2003) residents and a work force of 72 as of 2003. Inupiat Eskimos comprise 91 percent of the population. Atqasuk's economy is largely based on subsistence caribou hunting and fishing. Fish in the Meade River include grayling, burbot, salmon and whitefish. Local game includes, ptarmigan, ducks and geese. Residents also travel to the coast to participate in whaling and hunting other marine mammals.

The Meade River School offers public education from pre-school to grade 12 and adult basic education. The student population is approximately 85 students. Communications include phone, mail, public radio and cable television. (Ref: [www.north-slope.org/villages/atqasuk](http://www.north-slope.org/villages/atqasuk))

#### 2.1.2 Wainwright

Wainwright sits on a wave-eroded coastal bluff of a narrow peninsula which separates Wainwright Inlet from the Chukchi Sea. Wainwright is about 70 miles southwest of Barrow.

The inlet was named in 1826 by Captain F.W. Beechey for his officer, Lt. John Wainwright. The present village was established in 1904 when the Alaska Native Service built a school there. The community was incorporated as a second-class city in 1962. Wainwright is the third largest village in the North Slope Borough, and in 2003 had a population of 556 and work force of 221. Ninety-four percent of the residents are Inupiat Eskimo.



**Wainwright Alak School**

Wainwright has a larger private sector than most villages: 38 percent of the work force is employed by private businesses, primarily the village and regional corporations. The Borough employs 30 percent of the work force and the School District provides jobs for another 25 percent.

Wainwright's subsistence hunting revolves primarily around whales and caribou. Local arts and crafts include carved ivory figurines and jewelry, baleen boats, whale bone carvings, clocks, knitted caps and gloves.

Wainwright's children attend Alak School from pre-school to grade 12. The community also offers adult basic education and vocational education. The school has a swimming pool and gymnasium which are also used by the public. (Ref.: [www.north-slope/villages/wainwright](http://www.north-slope/villages/wainwright))

## **2.2 Existing Facility Condition**

### **2.2.1 Atqasuk Meade River School**

The Atqasuk Meade River School is one of two facilities examined in this Project Analysis Report. The Wainwright Alak School is discussed in following paragraphs. The school houses approximately 85 students and staff for grades k-12 in a single 47,100 SF facility. The condition survey conducted by the CH2M HILL team addressed this facility.

The facility maintenance staff identified the following items for consideration during the site visit

1. Classroom (Kimberly's room) and boiler room leaks
2. East side room air infiltration
3. Utilidor air infiltration
4. Replacement of selected exterior doors
5. Add west side loading dock
6. Bathroom remodel
7. Gym floor coating
8. Consider kitchen remodel
9. new floor finishes in boiler room and shop areas
10. Paint building exterior
11. Energy efficient lighting in gymnasium
12. Paint gymnasium
13. Dehumidifier for pool area
14. Replace oil fired hot water with more energy efficient replacement
15. Add door into communication room from wood shop area
16. Add air conditioning to computer server area
17. Remodel principal's office

Given the environment and the heavy use by staff, students and the general public the facility have performed fairly well. This indicates that the facilities maintenance staff is doing a good job. The principle problems in the facility relate to normal wear and tear and weather related problems that result in cold air and moisture infiltration and condensation. An infrared thermographic survey of the building exterior identified potential areas of cold air infiltration.

Two items have been noted that will require detailed future engineering analysis. These are the substantial amount of air infiltration into classrooms on the north side of the building and deformation of the exterior wall in this area. The two problems are not related.

In addition to the facility staff items above upgrade and renovation items including architectural, mechanical, and electrical are addressed in Section 3, 5, and 6 and costs associated with these items are summarized in Section 7.

The larger cost items of recommended renovation or upgrade described in the PAR include:

1. North and East wall repairs

2. Arctic entry construction
3. North wall repairs
4. Bathroom remodel
5. Install cooling systems
6. Gymnasium flooring
7. Painting of the facility
8. Access Control

## 2.2.2 Wainwright Alak School

The Wainwright Alak School is one of two facilities examined in this Project Analysis Report. The Atqasuk Meade River School was discussed in previous paragraphs. The school houses approximately 160 students and staff for grades k-12 in a single 57,936 SF facility. The condition survey conducted by the CH2M HILL team addressed this facility.

The facility maintenance staff identified the following items for consideration during the site visit

1. Utilidor ceiling in connection from main building to bus barn is leaking
2. Leakage in library and counselor room
3. Deformation cracks noticeable around window at room 194
4. Replace multipurpose room outside door
5. Address pipe freezing, leakage, and floor damage on north side of the high school
6. Repair/replace building skirting
7. Replace damaged windows

Given the environment and the heavy use by staff, students and the general public the facility have performed fairly well. This indicates that the facilities maintenance staff is doing a good job. The principle problems in the facility relate to normal wear and tear and weather related problems that result in cold air and moisture infiltration and condensation. An infrared thermographic survey of the building exterior identified potential areas of cold air infiltration.

Two items have been noted that will require detailed future engineering analysis. These are the water damage in the high School (see **Appendix D, PIC-AIN-12, 13**) and the interior window damage in the wall of Room 194 (see **Appendix D, PIC-AIN-007**)

In addition to the facility staff items above upgrade and renovation items including architectural, mechanical, and electrical are addressed in Section 3, 5, and 6 and costs associated with these items are summarized in Section 7.

The larger cost items of recommended renovation or upgrade described in the PAR include:

1. Building piling foundation repair
2. Glazing replacement
3. Replace decking
4. Replace skirting
5. Access Control
6. Horizontal LAN distribution
7. Pressurize electrical room
8. Painting
9. Wall carpeting
10. flooring repair



**PROJECT NAME:** Ilisagvik College New Facility Design  
**LOCATION:** Utqiaġvik/Barrow

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 06-204  
DATE SUBMITTED: 2/20/2020  
REQUESTING ENTITY: Ilisagvik College

TYPE: UpFund  
AMOUNT REQUESTED: \$8,476,000 with \$4.5M through LOI  
AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Ilisagvik College

**2. PROJECT NAME:** Ilisagvik College New Facility Design

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Ilisagvik College is requesting funds to advance and complete the design of the new College campus. As noted in last year's request, a Project Analysis Report (PAR) completed by UMIAQ in 2016 identified potential campus sites and provided a preliminary concept design/cost estimate. The College selected a 10-acre parcel of land owned by UIC near Samuel Simmonds Memorial Hospital, which will allow the College to consolidate programs and services into one centrally located campus, thus improving student access, and better serving the residents of the North Slope.

Since 2017, Ilisagvik has taken concrete steps to advance the new campus facility. The College has followed the NICC Development Plan created in 2017/2018. Additionally, after a competitive selection process, Ilisagvik selected the architectural team of UMIAQ/Cibinel Architecture Ltd. to design the new campus. Working together with the architects, a detailed assessment of the current facilities and College Program resulted in consolidating the entire campus into one building and reduced the overall gross square feet (gsf) of the building from 150,200 gsf to 111,036 gsf. This 26% decrease in gsf has the potential to reduce the total cost of the project while the College works with the NSB CIPM Department on exploring other possible cost saving measures. Throughout 2018, Ilisagvik College traveled to the North Slope villages to hear firsthand how the College can better serve their needs. Through this effort, the College garnered support for the new campus in the form of resolutions and letters from many of the Villages and Native corporations (please see attachments for copies of those).

The project timeline remains aggressive and the the intention of opening the new campus as soon as possible is paramount. Ilisagvik has created an organizational support structure including executive, cultural, capital, and communications committees. UIC has reserved the site for the new College, and Ilisagvik is actively working with UIC on the lease agreement. The next step is to acquire additional funding to complete the campus design, execute a design contract, and continue the design development of the new facility and associated cost estimates.

**4. PROJECT LOCATION:**

Utqiaġvik/Barrow

**PROJECT NAME:** Ilisagvik College New Facility Design

**LOCATION:** Utqiagvik/Barrow

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Total Request for New Campus Design: \$8,475,727 (balance of PAR estimate Design Only amount)

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design (8%) and CA (4%)	PAR Estimate	\$ 14,213,592
<b>Construction / Acquisition</b> (anticipated costs)	Construction PAR Estimate Building & Site (pad, utilities, road)	PAR Estimate	\$ 118,446,600
<b>Administration</b> (NSB project management)	Project Management, 5%	PAR Estimate	\$ 5,922,330
<b>Contingency</b> (if not included in other line items)	Change Order Reserve, 8% Contingency, 15%	PAR Estimate	\$ 27,242,718
<b>Other Costs</b> (with description)	Permit 0.3%, Art/LEED/Other MISC Costs 3%, FFE 5%	PAR Estimate	\$ 9,238,835
<b>TOTAL</b>			\$ 175,064,075
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

To maintain the currently anticipated schedule, \$4.5 million would be needed by Nov. 2020. The majority of this initial required funding here, Ilisagvik and the NSB can make demonstrable strides towards completing the design. The benefit to allocating funds to this project now is that further cost escalation (3.5%/year) can be mitigated, resulting in a more economical project overall.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

We anticipate requesting \$75-\$90 Million from the North Slope Borough over the course of the project; the amount is dependent on our fundraising efforts using outside sources. Ilisagvik College has a dedicated Capital Campaign Committee that will actively pursue other avenues of funding.

**PROJECT NAME:** Iisagvik College New Facility Design

**LOCATION:** Utqiaġvik/Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Iisagvik College currently operates out of buildings that were built in the 1940s, 1950s, 1960s, which were not designed to be an educational facility. In addition, waiting additional years increases the cost of construction of the new facility by about 3.5% per year. It is important to begin this process now.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

**A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.**

Iisagvik College is operating out of an aged and deteriorating facility that was not designed to be an educational institution, and therefore not ideal for educational purposes. The current facilities are plagued by health, safety and environmental concerns. NARL is adjacent to a waste disposal area that contains PCBs and Asbestos. Also, NARL does not contain adequate water storage for fighting a major fire. Moreover, the increase in severity of seasonal storms has caused Stevenson, the only access road to NARL, to become annually impassable. In late 2018 and early 2019, the College went without access to water for 34 days because of freeze-up issues, a problem that most likely would not have occurred were the campus located within town. The ADEC has identified eight sites on or near the old Iisagvik campus that are considered active and have ongoing cleanup efforts.

**B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.**

The completed new Iisagvik College campus will expand college services to all North Slope Borough villages by allowing for greater capacity, connectivity, and growth. The College does not anticipate that the facility will entail increased operating and maintenance costs, which should decline. An analytical model comparing FY19's budget (at NARL) and the projected post-occupancy budget (in the new facility) shows an overall cost reduction estimate of more than 10%. This cost reduction is primarily from the elimination of leased buildings and lower maintenance costs at the new facility.

**C. Indicate if this is a reoccurring upgrade or repair.**

This is not a reoccurring upgrade; the project is dedicated to building a new campus that will help mitigate the need for reoccurring upgrades or repairs.

**D. Detail outside funds being leveraged, if applicable.**

A Capital Campaign Committee has been formed to identify and secure funding. These funds include: 1. Federal Grants: Department of Education, Department of Housing and Urban Development, other Federal Tribal College dollars; 2. State Grants: Rasmuson Foundation and other foundations; 3. Oil & Gas Partner Support; 4. Local Support: ASRC and other entities.

**11. Please respond to the following questions:**

**A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Please see the attached Existing Conditions Analysis.

**PROJECT NAME:** Iisagvik College New Facility Design

**LOCATION:** Utqiagvik/Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The cost of maintenance and operations that the NSB supports as a part of the general operating budget will decrease with the new facility. In FY 18 the NSB through-lease with UIC paid \$2.5 million for the lease of the Iisagvik College Main Campus. The total paid to UIC is \$36.9 million. All of those funds moving forward should be invested in a facility that has longevity, rather than spending \$2+ million each year on a facility we do not own and that continues to lose value each year due to age and obsolescence.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

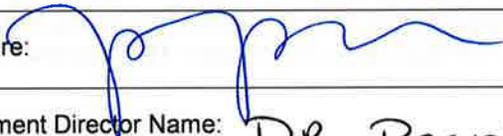
**13. ATTACHMENTS:** List any supplemental information submitted with this request.

1. New Campus Design; 2. Floor Plans; 3. Site Selection with letter of intent; 4. Existing Conditions Analysis; 5. Cost Estimate; 6. Letters of Support and Resolutions (see the table of contents on p. 1 of the Attachments for a complete list)

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

The new student-inspired, community-drive Iisagvik College Campus will be grounded in Inupiat values and will be adaptable to the needs of an evolving student body to foster educational excellence at every opportunity. The new College Campus will model best practices in Indigenous education and train leaders to drive global change, and meet North Slope workforce needs.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Dr. Pearl Brower, President	
Signature:		Date: 2/20/2020
Department Director Name:	DR. Pearl Brower	
Department Director Signature:		Date: 2/20/2020

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

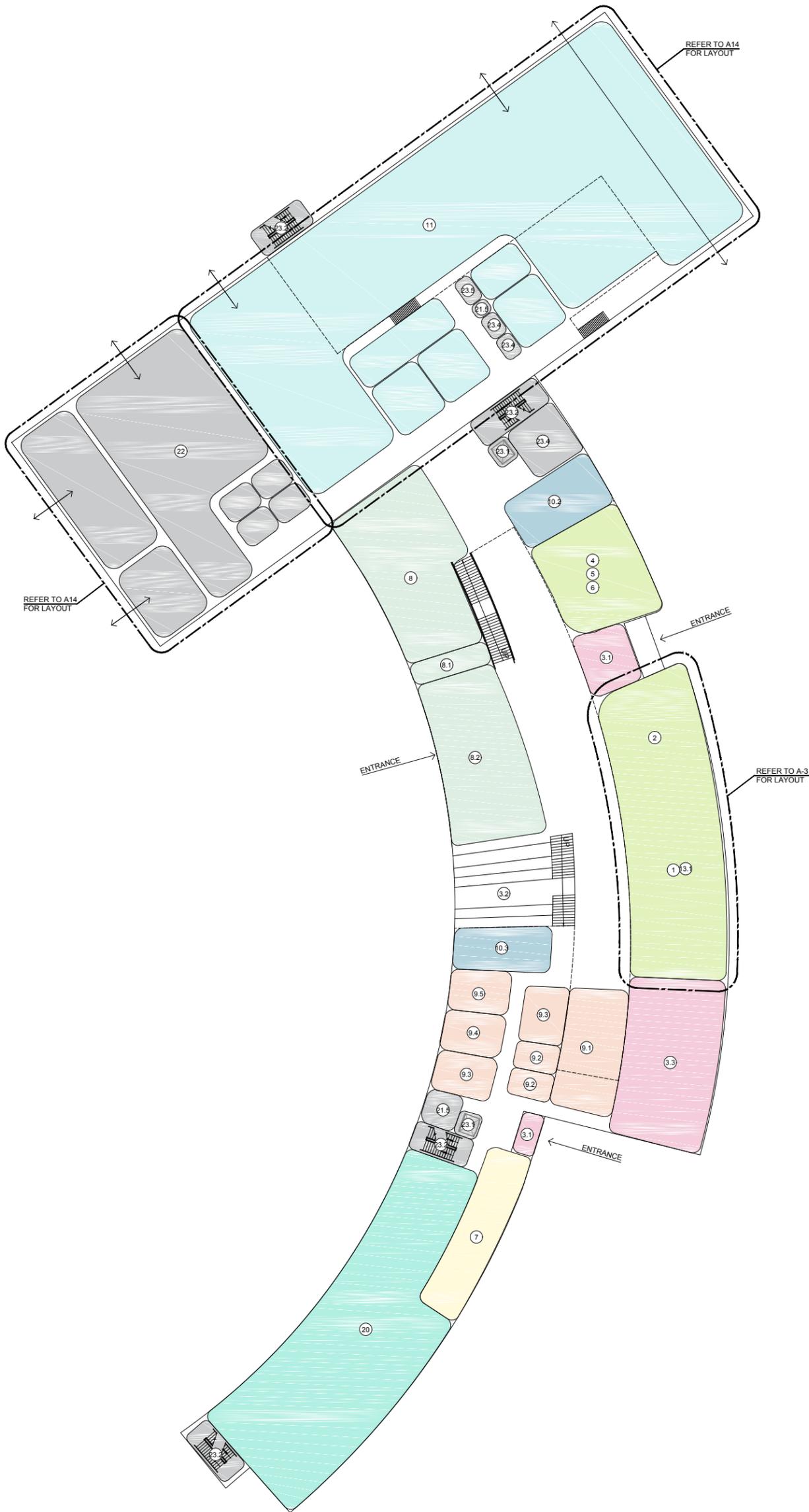
Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

# 2020 CIP Project Request Form

## Iḷisaḡvik College Attachments

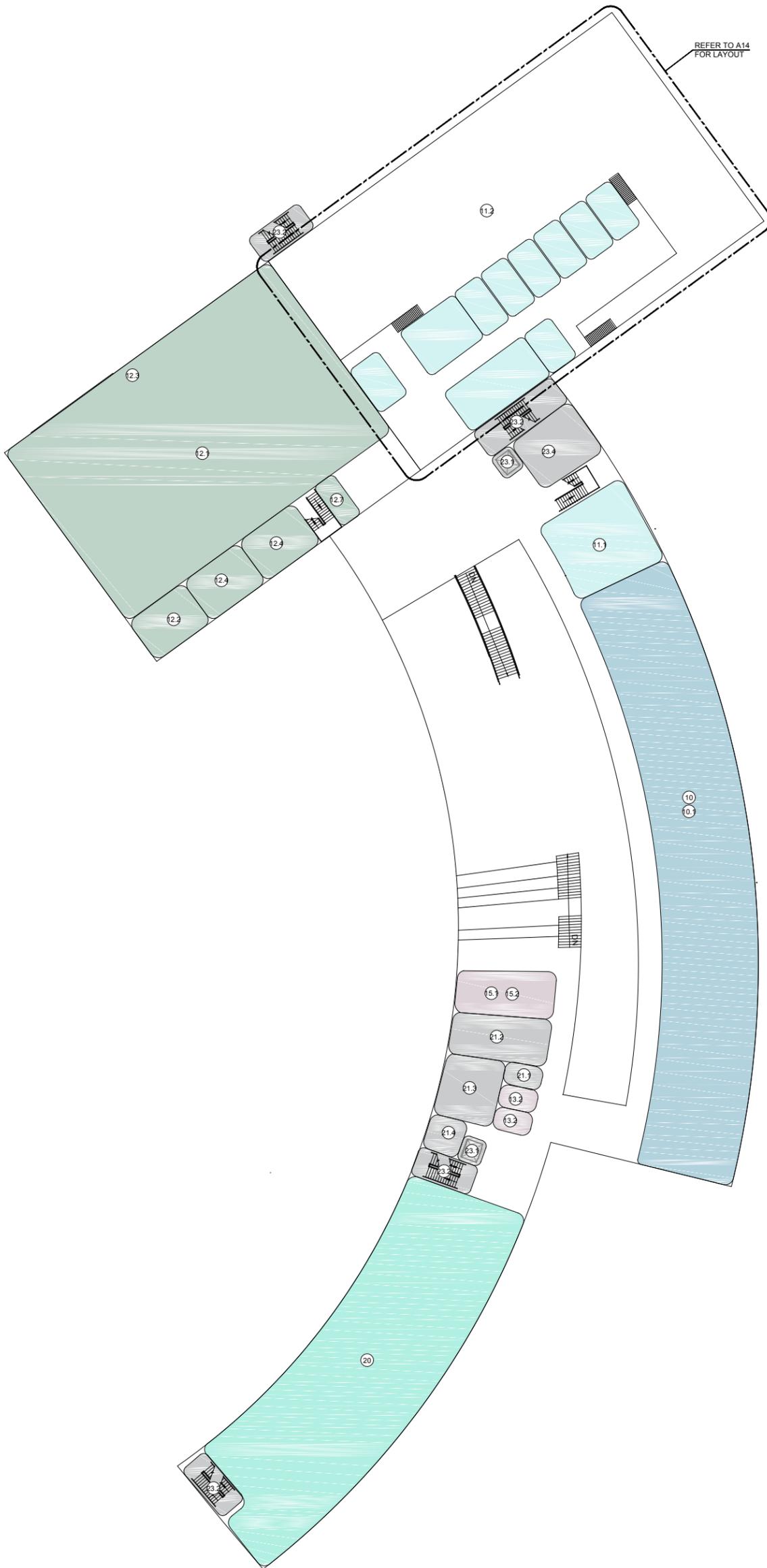
Attachments Contents  
*(Numerical Headings are Linked)*

1. [New Campus Design Conceptual Site Layout](#)
2. [New Campus Design Floor Plans](#)
3. [Site Selection with Letter of Intent](#)
4. [Existing Conditions Analysis](#)
5. [Cost Estimates](#)
6. [Letters of Support and Resolutions](#)
  - a. [Native Village of Atqasuk Resolution](#)
  - b. [City of Atqasuk Resolution](#)
  - c. [Tikigaq Corporation Letter of Support](#)
  - d. [Tikigaq Corporation Resolution](#)
  - e. [City of Kaktovik Resolution](#)
  - f. [Village of Wainwright Letter of Support](#)
  - g. [Native Village of Barrow Resolution](#)
  - h. [City of Utqiaḡvik Resolution](#)
  - i. [ICAS Letter of Support](#)
  - j. [ICAS Resolution](#)
  - k. [ConocoPhillips Letter of Support](#)
  - l. [Alaska Native Tribal Health Consortium Letter of Support](#)
  - m. [Alaska Pacific University Letter of Support](#)
  - n. [Representative John Lincoln Letter of Support](#)
  - o. [Senator Donald C. Olson Letter of Support](#)
  - p. [New Iḷisaḡvik College Campus Petition of Support – Signatures \(Origin: Commencement 2018\)](#)
  - q. [Inuit Circumpolar Council Letter of Support](#)
  - r. [Native Village of Point Lay Resolution](#)
  - s. [TNHA Resolution](#)
  - t. [Arctic Slope Native Association Letter of Support](#)
  - u. [NSB Human Resources Letter of Support](#)
  - v. [NSB School District Letter of Support](#)
  - w. [NSB Fire Department Letter of Support](#)
  - x. [New Iḷisaḡvik College Campus Petition of Support – Signatures \(Origin: Alaska Federation of Natives Conference 2018\)](#)
  - y. [Iḷisaḡvik College Board of Trustees Letter of Support](#)



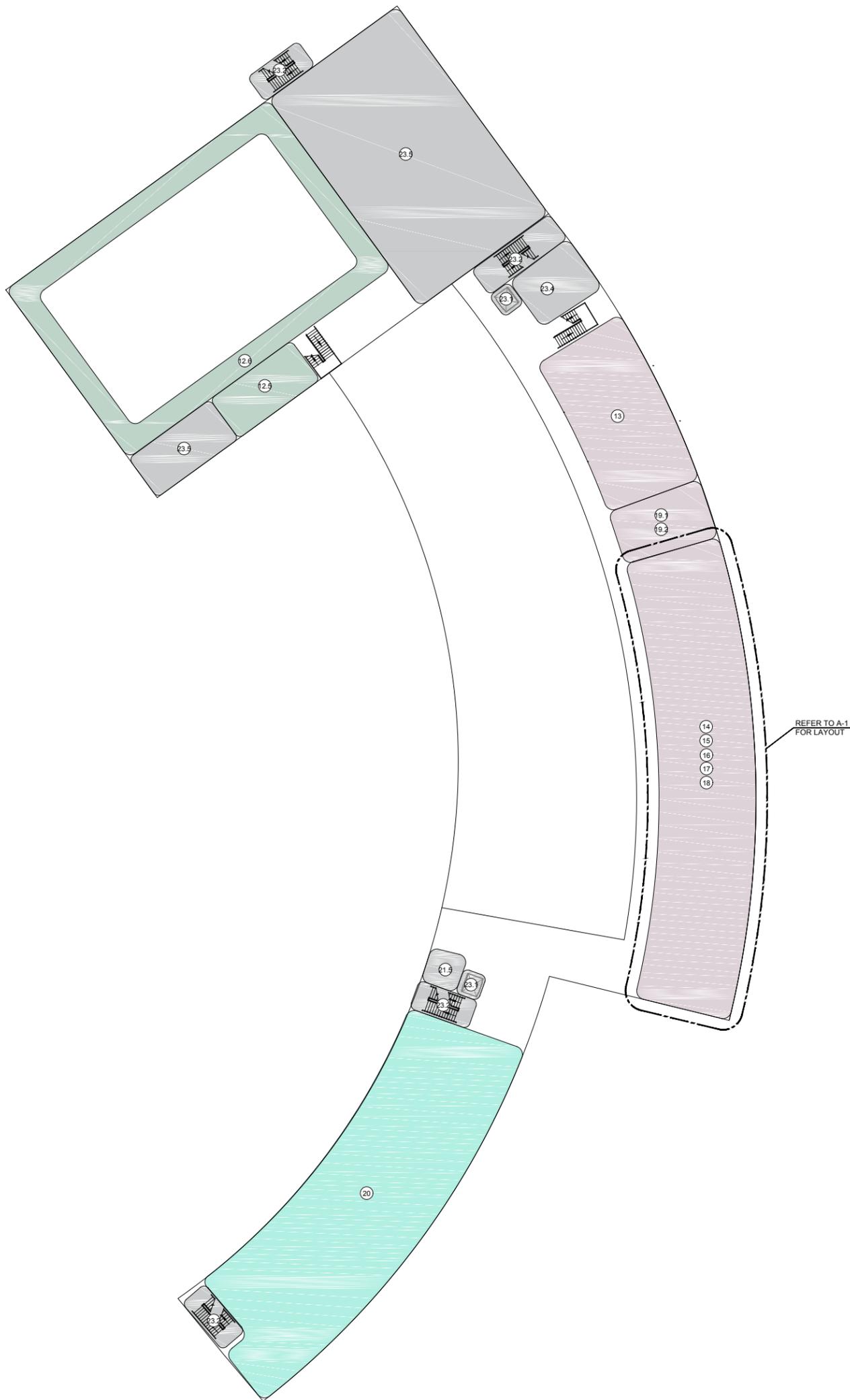
**LEGEND**

- PUBLIC / SUPPORT
  - ① STUDENT SUCCESS CENTRE
  - ② REGISTRATION
- INSTITUTIONAL SUPPORT
  - ③.1 LOBBY
  - ③.2 STUDENT COMMONS
  - ③.3 LARGE CONFERENCE ROOM
- BOOKSTORE
  - ④ BOOKSTORE
  - ⑤ COFFEE SHOP
  - ⑥ SHIPPING / RECEIVING
- EARLY LEARNING CENTRE
  - ⑦ EARLY LEARNING CENTRE
- KITCHEN / CAFETERIA
  - ⑧ KITCHEN
  - ⑧.1 SERVING LINE
  - ⑧.2 DINING AREA
- LEARNING COMMONS
  - ⑨.1 COMMON AREA
  - ⑨.2 INDIVIDUAL / SMALL GROUP STUDY AREA
  - ⑨.3 LARGE GROUP STUDY AREA
  - ⑨.4 PLACEMENT TESTING
  - ⑨.5 TUTORING OFFICE
- INSTRUCTION
  - ⑩ ACADEMIC INSTRUCTION CLASSROOMS
  - ⑩.1 ADULT BASIC EDUCATION
  - ⑩.2 CULINARY CLASSROOM
  - ⑩.3 ART / CULTURE CLASSROOM
- VOCATIONAL EDUCATION
  - ⑪ VOCATIONAL EDUCATION
  - ⑪.1 GROUP INSTRUCTION ROOM
  - ⑪.2 VOC. ED / WFD / COOP. EXT. OFFICES
- WELLNESS
  - ⑫ COURT
  - ⑫.2 STORAGE
  - ⑫.3 VIEWING
  - ⑫.4 CHANGE ROOMS / WASHROOMS
  - ⑫.5 EXERCISE ROOM
  - ⑫.6 RUNNING TRACK
  - ⑫.7 OFFICE
- OFFICES
  - ⑬ ACADEMIC FACULTY OFFICES
  - ⑬.3 INUPIAQ STUDIES OFFICE
  - ⑬.3.2 DISTANCE EDUCATION SUPPORT
  - ⑭ EXECUTIVE ADMINISTRATION
  - ⑮ CHIEF ADMINISTRATIVE OFFICES
  - ⑮.5 MARKETING / DESIGN
  - ⑮.5.2 MARKING / PR.
  - ⑮.6 OFFICE OF ACADEMIC AFFAIRS
  - ⑮.7 BUSINESS / GRANTS
  - ⑮.8 HUMAN RESOURCES OFFICE
  - ⑮.9 VIDEO CONFERENCE ROOM
  - ⑮.9.2 STAFF LOUNGE
- LIVING
  - ⑳ STUDENT HOUSING - DORMS
- INFORMATION SERVICES
  - ㉑ IT MANAGER OFFICE
  - ㉑.2 IT WORK AREA
  - ㉑.3 PART STORAGE
  - ㉑.4 MAIN SERVER ROOM
  - ㉑.5 IDF CLOSET
- MAINTENANCE AND OPERATIONS
  - ㉒ REFER TO A14
- SERVICE / CIRCULATION
  - ㉓.3 ELEVATOR
  - ㉓.3.2 EXIT STAIR
  - ㉓.4 WASHROOM
  - ㉓.5 MECHANICAL



**LEGEND**

- PUBLIC / SUPPORT
  - ① STUDENT SUCCESS CENTRE
  - ② REGISTRATION
- INSTITUTIONAL SUPPORT
  - ③.1 LOBBY
  - ③.2 STUDENT COMMONS
  - ③.2 LARGE CONFERENCE ROOM
- BOOKSTORE
  - ④ BOOKSTORE
  - ⑤ COFFEE SHOP
  - ⑥ SHIPPING / RECEIVING
- EARLY LEARNING CENTRE
  - ⑦ EARLY LEARNING CENTRE
- KITCHEN / CAFETERIA
  - ⑧ KITCHEN
  - ⑧.1 SERVING LINE
  - ⑧.2 DINING AREA
- LEARNING COMMONS
  - ⑨.1 COMMON AREA
  - ⑨.2 INDIVIDUAL / SMALL GROUP STUDY AREA
  - ⑨.3 LARGE GROUP STUDY AREA
  - ⑨.4 PLACEMENT TESTING
  - ⑨.5 TUTORING OFFICE
- INSTRUCTION
  - ⑩ ACADEMIC INSTRUCTION CLASSROOMS
  - ⑩.1 ADULT BASIC EDUCATION
  - ⑩.2 CULINARY CLASSROOM
  - ⑩.3 ART / CULTURE CLASSROOM
- VOCATIONAL EDUCATION
  - ⑪ VOCATIONAL EDUCATION
  - ⑪.1 GROUP INSTRUCTION ROOM
  - ⑪.2 VOC. ED / WFD / COOP. EXT. OFFICES
- WELLNESS
  - ⑫ COURT
  - ⑫.2 STORAGE
  - ⑫.3 VIEWING
  - ⑫.4 CHANGE ROOMS / WASHROOMS
  - ⑫.5 EXERCISE ROOM
  - ⑫.6 RUNNING TRACK
  - ⑫.7 OFFICE
- OFFICES
  - ⑬ ACADEMIC FACULTY OFFICES
  - ⑬.1 INUPIAQ STUDIES OFFICE
  - ⑬.2 DISTANCE EDUCATION SUPPORT
  - ⑭ EXECUTIVE ADMINISTRATION
  - ⑮ CHIEF ADMINISTRATIVE OFFICES
  - ⑮.1 MARKETING / DESIGN
  - ⑮.2 MARKING / PR.
  - ⑮.3 OFFICE OF ACADEMIC AFFAIRS
  - ⑮.4 BUSINESS / GRANTS
  - ⑮.5 HUMAN RESOURCES OFFICE
  - ⑮.6 VIDEO CONFERENCE ROOM
  - ⑮.7 STAFF LOUNGE
- LIVING
  - ⑳ STUDENT HOUSING - DORMS
- INFORMATION SERVICES
  - ㉑.1 IT MANAGER OFFICE
  - ㉑.2 IT WORK AREA
  - ㉑.3 PART STORAGE
  - ㉑.4 MAIN SERVER ROOM
  - ㉑.5 IDF CLOSET
- MAINTENANCE AND OPERATIONS
  - ㉒ REFER TO A14
- SERVICE / CIRCULATION
  - ㉓.1 ELEVATOR
  - ㉓.2 EXIT STAIR
  - ㉓.3 WASHROOM
  - ㉓.4 MECHANICAL



**LEGEND**

- PUBLIC / SUPPORT
  - ① STUDENT SUCCESS CENTRE
  - ② REGISTRATION
- INSTITUTIONAL SUPPORT
  - ③.1 LOBBY
  - ③.2 STUDENT COMMONS
  - ③.2 LARGE CONFERENCE ROOM
- BOOKSTORE
  - ④ BOOKSTORE
  - ⑤ COFFEE SHOP
  - ⑥ SHIPPING / RECEIVING
- EARLY LEARNING CENTRE
  - ⑦ EARLY LEARNING CENTRE
- KITCHEN / CAFETERIA
  - ⑧ KITCHEN
  - ⑧.1 SERVING LINE
  - ⑧.2 DINING AREA
- LEARNING COMMONS
  - ⑨.1 COMMON AREA
  - ⑨.2 INDIVIDUAL / SMALL GROUP STUDY AREA
  - ⑨.3 LARGE GROUP STUDY AREA
  - ⑨.4 PLACEMENT TESTING
  - ⑨.5 TUTORING OFFICE
- INSTRUCTION
  - ⑩ ACADEMIC INSTRUCTION CLASSROOMS
  - ⑩.1 ADULT BASIC EDUCATION
  - ⑩.2 CULINARY CLASSROOM
  - ⑩.3 ART / CULTURE CLASSROOM
- VOCATIONAL EDUCATION
  - ⑪ VOCATIONAL EDUCATION
  - ⑪.1 GROUP INSTRUCTION ROOM
  - ⑪.2 VOC. ED / WFD / COOP. EXT. OFFICES
- WELLNESS
  - ⑫ COURT
  - ⑫.2 STORAGE
  - ⑫.3 VIEWING
  - ⑫.4 CHANGE ROOMS / WASHROOMS
  - ⑫.5 EXERCISE ROOM
  - ⑫.6 RUNNING TRACK
  - ⑫.7 OFFICE
- OFFICES
  - ⑬ ACADEMIC FACULTY OFFICES
  - ⑬.1 INUPIAQ STUDIES OFFICE
  - ⑬.3 DISTANCE EDUCATION SUPPORT
  - ⑭ EXECUTIVE ADMINISTRATION
  - ⑮ CHIEF ADMINISTRATIVE OFFICES
  - ⑮.1 MARKETING / DESIGN
  - ⑮.2 MARKETING / PR.
  - ⑮.3 OFFICE OF ACADEMIC AFFAIRS
  - ⑮.4 BUSINESS / GRANTS
  - ⑮.5 HUMAN RESOURCES OFFICE
  - ⑮.6 VIDEO CONFERENCE ROOM
  - ⑮.7 STAFF LOUNGE
- LIVING
  - ⑯ STUDENT HOUSING - DORMS
- INFORMATION SERVICES
  - ⑰.1 IT MANAGER OFFICE
  - ⑰.2 IT WORK AREA
  - ⑰.3 PART STORAGE
  - ⑰.4 MAIN SERVER ROOM
  - ⑰.5 IDF CLOSET
- MAINTENANCE AND OPERATIONS
  - ⑱ REFER TO A14
- SERVICE / CIRCULATION
  - ⑲.1 ELEVATOR
  - ⑲.2 EXIT STAIR
  - ⑲.3 WASHROOM
  - ⑲.3 MECHANICAL

35



- LEGEND
- ROAD EXTENSION
  - NEW WATER AND SEWER LINES
  - NEW OVERHEAD POWER LINE
  - NEW GAS LINE
  - EXISTING HIGH PRESSURE GAS TRANSMISSION LINE

SITE ACCESS AND UTILITIES

June 18, 2015

Pearl Brower  
President Ilisagvik College  
100 Stevenson St.  
P.O. Box 749  
Barrow, AK 99723



RE: Letter of Intent  
Secure Lands for Ilisagvik College Future Campus

Dear Pearl Brower,

This letter will constitute as Ukpeagvik Inupiat Corporation Lands Department's intent to reserve ten acres of UIC land south of the new hospital to be utilized for the future Ilisagvik campus. UIC Lands does support this prospect and does intend to seek UIC Board of Director's approval. If approved, UIC Real Estate will negotiate the terms of the land usage.



This image is a general depiction of the intended reservation of lands.

If you should have any questions, please call our office at (907) 852-4460.

Sincerely,

A handwritten signature in blue ink, which appears to read "LARS NELSON".

**LARS NELSON | PRESIDENT UIC LANDS**  
**UKPEAGVIK INUPIAT CORPORATION**

---

Corporate Headquarters | PO Box 890 | Barrow, AK 99723 | P 907.852.4460 | F 907.852.4459  
Anchorage Office | 3201 C Street, Ste 801 | Anchorage, AK 99503 | P 907.677.5201 | F 907.677.5280

# Iḷisaġvik College Existing Conditions Analysis

---

## EXISTING CONDITIONS ANALYSIS:



Iḷisaġvik College's main campus is located approximately three miles east of Barrow's population center on the shore of the Chukchi Sea. Access to the College is by way of Stevenson Street, a two-lane gravel road located along the coastline. On average, the campus is closed down 3-4 times a year due to road closures caused by weather conditions.

Parking for staff, students and visitors is available directly adjacent to campus buildings. Public transportation to the campus is provided by the NSB Public Works van, local cab service and College-operated van service for students, staff and faculty.

## EXISTING BUILDINGS SPACE UTILIZATION STUDY

Iḷisaġvik College presently occupies a total of thirteen (13) buildings of varying size, age, and physical condition. A majority of the facilities reside on the main campus at buildings originally constructed in the 1940s for use by the Naval Arctic Research Laboratory (NARL.) Additionally, the College utilizes three buildings located within Barrow's population center that provide classroom space for adult and childhood educational opportunities. The types of facility range from Quonset huts, which house vocational educational classes, such as carpentry, electrical, heavy equipment operations, to a modern library facility, which is frequented by the entire community. All facilities have the properly marked entry and exits with fire alarms and extinguishers. Alarms are inspected annually. Power receptacles located at each building are available for plugging in vehicles in winter months.

The College partners with the North Slope Borough in a long-term property lease arrangement with the Ukpeaġvik Inupiat Corporation (UIC), one of the Native corporations created under the Alaska Land Claims Settlement Act. The Borough leases a number of buildings, collectively known as the NARL Campus Site of the College for \$2.4 million annually through a master lease agreement. As part of the agreement, the College assumes responsibility for routine maintenance, servicing, and repairs to a maximum of \$6,000/incident or task. Additional costs above this amount default to the landlord, UIC.

Sharing of facilities and responsibility is in keeping with the Iñupiat values of sharing and cooperation which has resulted in successful partnerships between the regional government, the

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

# Iḷisaġvik College Existing Conditions Analysis

---

school district, the regional corporation, the local corporation, the tribal housing authority and Iḷisaġvik College. The availability of classroom space, offices and family housing to Iḷisaġvik students through such collaboration is one example of the strong support for higher education by the community.

**The College utilizes a total of 83,000 GSF of space to provide for student, faculty and administrative staff.** Iḷisaġvik College's current programmed spaces can be categorized into the following major components:

- Administrative/Student Services
- Academic
- Vocational Education and Industrial Safety
- Student Housing
- Staff Housing
- Kitchen/Cafeteria
- Library
- Recreation
- Warehouse/Storage

**Administrative/Student Services** program component encompasses a variety of student and staff related functions including registration, financial services, business services, human resources, offices, information technology, maintenance and operations, and instructional administration spaces. **This component currently utilizes approximately 16,180 GSF of which 11,000 GSF** is located in Main Campus Building #360, which was constructed in 1968.

- **Main Campus Facility #360 (NARL):** This is a wood frame building elevated on pilings with a full sprinkler/alarm system. This facility houses all administrative and student service functions, provides a residence hall for students and staff/faculty, and also includes offices for information technology, maintenance, and workforce administration. Additionally, it provides space for up to 75 people for large classes, community events and seminars. A computer lab and a classroom/video conference room that is used for meetings and short term training is located in the men's dorm wing. An access ramp is available and is located in the center of both wings of the building. The building is part of the UIC complex and is rented to Iḷisaġvik as part of a five-year master lease.

**Academic Spaces** include general classrooms, computer labs, and science labs located in several buildings on the main campus and in-town locations.

- **Hut #58**, located on the main campus, is a two-story Quonset hut built in 1965. It houses Business Management, Office Administration, and Information Technology programs. The first floor contains the information technology resource center and two classroom/computer labs. The second floor includes a computer lab and a distance-delivery classroom. **The 6,000 GSF building has approximately 2,400 GSF of classroom/lab space.** The building is part of the UIC complex and is rented to Iḷisaġvik as part of a five-year master lease.

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

- **Hut #60**, located on the main campus, is a two-story Quonset hut built in 1948. **The 5,900 GSF building has approximately 1,900 GSF of classroom/lab space.** There are two science laboratories and general classroom space on the first floor. The second floor houses the Academic Division department, the Learning Resource Center for Students, and faculty offices. The building is part of the UIC complex and is rented to Iḷisaġvik as part of a five-year master lease.
- **The Browerville Center/Inupiat Studies building** is located in town near the Tuzzy Consortium Library and the Alaska Commercial Store. **The 2,200 GSF two-story building** is dedicated solely to academic purposes and Inupiat Studies. It contains four classrooms, two faculty offices, and a tutoring lab with eight computer work stations. The building was constructed in 1975 and is owned by the North Slope Borough who has leased it to the College at no cost.

**Vocational Education/Industrial Safety** program-shop spaces typically consist of large open work areas able to accommodate equipment for heavy truck/equipment operation, construction trades, and industrial mechanics. General classrooms are located adjacent to the shops as are faculty offices. The Voc-Ed program is housed on the main NARL campus. The buildings are part of the UIC complex and are rented to Iḷisaġvik as part of a five-year master lease. The compound consists of **22,030 GSF** of space located in 4 buildings:

- **Building #5** was built in 1975. This is a remodeled two-story, wood frame building with an attached addition; it houses the industrial safety program lab; and a classroom for industrial safety classes. It consists of **5,607 GSF with 4,407 GSF being used as classroom/lab space and 640 GSF as faculty office space.** The building is at ground level and no access ramp is required.
- **Hut #61** was built in 1948. This is a one-story, remodeled Quonset hut with shop/lab space with a permanently attached ATCO building providing an additional classroom space. The heavy truck and equipment program uses this building. It consists of **5,314 GSF of which 3,500 GSF is used as classroom/lab space. 420 GSF is faculty office space.** The building is at ground level and no access ramp is required.
- **Hut #63** was built in 1958. This is a one-story Quonset hut that is used by the Construction Trades and Electrical program for classroom and lab space. It consists of **5,329 GSF with 4,160 GSF used as classroom/lab space and 180 GSF used as faculty office space.** The building is at ground level and no access ramp is required.
- **Hut #65** was built in 1958. This is a one-story, remodeled Quonset hut providing classroom and lab space for the Construction Trades, Plumbing, Welding, and Carpentry programs. Recent upgrades have been made to the back part of the Hut creating a fleet maintenance shop for all campus vehicles. It consists of **5,360 GSF with 2,040 used as classroom/lab space and 180 GSF used as faculty office space.**

**Student Housing** is located in Main Campus Building #360 built in 1968 and consists of dorm-style rooms with common restrooms, laundry facilities, study areas, and gathering spaces. This program component currently **utilizes approximately 17,550 GSF of the 32,000 GSF building.**

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

**Staff Housing** consists of one, single-family house built in 1975. This 3-bedroom house is located at 5644 C Street and is in close proximity to the Browerville Center, the Tuzzy Library, several grocery stores, and a playground. It is the only building owned by Iḷisaġvik College and is **approximately 1,250 square feet**. Due to a housing shortage in Barrow, the College is also currently leasing 12 housing units from local owners and subletting these units to college staff and faculty as needed.

**Kitchen/Cafeteria** is also located in Building 360. Daily meals are served for students, staff and visitors. The programmed space is divided into food preparation, cooking, cafeteria-style serving area and dining area. **This component utilizes 3,450 GSF of the 32,000 GSF building.**

**Tuzzy Consortium Library** is an **11,500 square foot** facility shared with the Iñupiat Heritage Center. It has a main reading room and book stacks. Seating capacity is 65 people including 11 workstations with connections to the internet. There is an expanded children's reading room and five offices that provide workspace as well as an expanded work area for catalogers and administrative assistants.

A **Student Recreation Center/Gym** consisting of half-court basketball area, weight room, training room, restroom, and office area is located in **Building #352**, which was built in 1994. It is located east of the main campus building. **The facility has a total of 6,283 GSF**. The building is part of the UIC complex and is rented to Iḷisaġvik as part of a five-year master lease.

A **Warehouse/Storage** building is also located east of the main campus building. **Building #255** is a two-story, wood frame building which functions as the warehouse for support services providing space for shipping and receiving, a vehicle dock, and food service storage. **The facility has a total of approximately 5,970 GSF**. An access ramp is available for vehicles. The building is part of the UIC complex and is rented to Iḷisaġvik as part of a five-year master lease.

Approved: 12/2/15

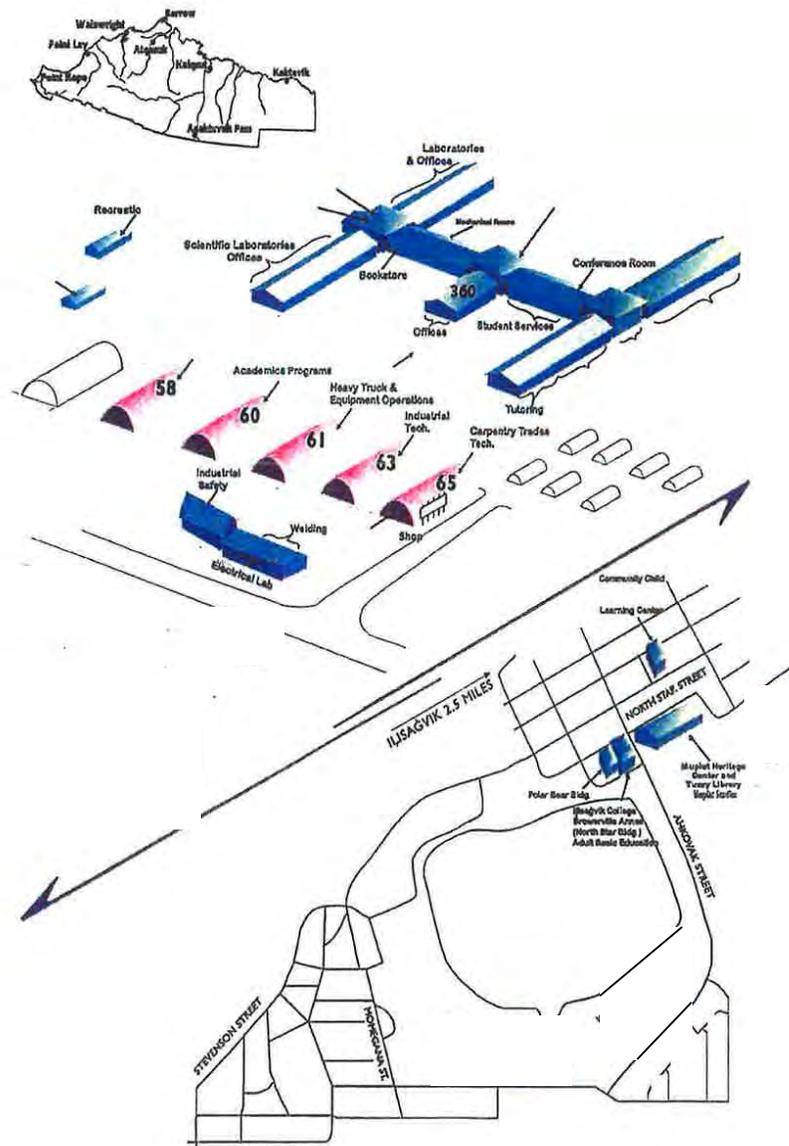
Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

# Iḷisaġvik College Existing Conditions Analysis

Iḷisaġvik Campus Layout



: 12/2/15  
 Draft Approved: 4/29/16  
 Approved: 4/14/17  
 Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

Iḷisaġvik College is housed primarily on the site known as NARL—Naval Arctic Research Laboratory. The US Navy started the site in order to explore the Naval Petroleum Reserve No. 4—known as Pet 4. When the Reserve was closed in 1953, the US Air Force assumed the operation of the facilities. Several 20’x40’ Quonset huts were built to house various activities; two of the earliest buildings are currently being used as classroom space: Hut # 60 and Hut # 61. The military maintained control of the site until 1980 when site control was given to Ukpeaġvik Iñupiat Corporation who in turned leased the property to the North Slope Borough. From 1980-1995, the North Slope Borough used the facility for a variety of purposes including many iterations of an institution of postsecondary education. It had several stages including:

- Iñupiat University of the Arctic
- University of Alaska Extension Center
- North Slope Higher Education Center
- Arctic Sivunmun Iḷisaġvik College
- Mayor’s Workforce Development Center

In 1995, Iḷisaġvik College achieved accreditation and became a standalone entity. In 2005, it became a federally recognized Tribal College.

The facilities were built to house military personnel and scientists and their laboratories not to house an educational institution. The cost of building in the remote arctic creates the necessity to retrofit existing structures to accommodate present needs. As a result, Iḷisaġvik College’s campus is a hodgepodge of buildings that have been renovated to address the needs of its student body. While the refurbishing of the structures has created classroom, lab and office space for faculty, staff and students, it doesn’t meet the needs of a growing institution.

- **No Site Control:** Iḷisaġvik does not have site control for any of the buildings on campus. The Ukpeaġvik Iñupiat Corporation (UIC) owns ten of the thirteen buildings used by the College. The Browerville Center and Tuzzy Library are owned by the North Slope Borough (NSB.) The space for Uqautchim Uglua belongs to the NSB School District. The NSB leases the NARL facilities from UIC for Iḷisaġvik’s use. Currently, the College is on the first year of a five-year lease. Any improvements or renovations are limited since Iḷisaġvik would be utilizing funds to enhance structures they do not control. Grant funds for capital improvements are not available to Iḷisaġvik because the College does not have site control.
- **Health and Safety Concerns:** The NARL campus is located three miles from the city center. Barrow and Browerville have several fire hydrants located throughout town. None are located in NARL. A holding tank is kept filled with water for use by fire trucks in case of a fire. In addition to lacking fire hydrants, the NARL campus is not on the Utilidor system. The Barrow Utilidor System a unique 3.2 mile wood tunnel that runs below Barrow like an underground road system. It transports running water through the permafrost to homes, schools and businesses. The following services are provided or networked within the Utilidor system: Potable water, sewage collection, telephone service lines, TV cable service lines, fiber optic service for North Slope Borough communications network and electric service lines. Since the NARL campus isn’t serviced by the Utilidor, potable water has to be delivered via tanker trucks and sewage is

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

# Iḷisaḡvik College Existing Conditions Analysis

pumped out daily by vacuum trucks. Not only are the costs for these services extremely high, if the NARL campus is inaccessible due to weather or a road outage, the campus is cut off from basic sanitation and health needs.

- **Too Many Small Buildings:** Iḷisaḡvik College’s campus consists of thirteen buildings spread over a large area. None of the buildings are connected. In an arctic environment where it is below freezing for an average of 245 days a year, connected pathways and limited outside exposure are beneficial. The small buildings and cramped classroom space lead to a reduced sense of community. Studies show that as much as half of all learning occurs informally, outside the classroom. Lack of common spaces and connectivity mean that these buildings fail to foster the social and collegial interaction typically desired in institutions of higher learning. Programs that could benefit from co-location with other programs are not possible in the current configuration. In addition to classroom space being separated, faculty is separated from spaces where they teach and interact with students.
- **Maintenance Concerns:** Spreading the square footage amongst numerous small buildings also increases number of roofs, exterior walls, and building systems per square foot. Aging structures in a harsh environment create the need for continual and expensive repairs. During the annual review of Iḷisaḡvik facilities, insurance-company risk assessments continually state that the roofline over entry ways to Building 360 need to be adjusted due to the risk of ice and snow falling onto passersby. Iḷisaḡvik does not own the buildings, but is being held responsible for building-related deficiencies.



Jagged roofline doesn’t adequately protect against snow buildup



**Flood risks:** Barrow experiences coastline erosion from the Chukchi Sea. Erosion averages just above 1 foot per year, but a single storm can cause more extensive losses up to 35 feet inland. Erosion has been aggravated by harvesting of beach materials, and by coastal ice forming later in recent years than it had in the past—historically, coastal ice has acted as natural erosion protection, and the community is now more susceptible to erosion from storms for a longer period. Stevenson Street, the only access to the NARL campus, and

archeological sites are the areas of greatest erosion concern. Coastal flooding is also a significant issue.

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

- The worst flood to date occurred in 1963. Seawater is reported to have moved 400 feet inland. Fifteen homes were destroyed, and 17 more were damaged. Approximately 70% of the airstrip at NARL was destroyed. The foundations of the quonset huts were eroded and damaged with some buildings being washed off their slabs.
- In August 2000, the barge that was used for dredging for gravel was sunk during a devastating storm.
- In October 2002, another storm caused widespread damage. Due to the lack of sea ice, waves peaked at 14 feet. Heavy equipment had to be used to build up the existing sea walls and protect the fresh water lagoon. Stevenson Street, the only access to the Iḷisaġvik's campus, was impassable for several days.



Stevenson Street—Only Access to Iḷisaġvik 2002

- **Insufficient Instructional and Support Space:** The original buildings were constructed and designed as laboratories and office space, not as classroom areas. Classrooms have been carved out of existing space in structures. Classroom laboratory space has been created by razing walls and combining two spaces, which eliminates a classroom space. Faculty office space is cramped and dark. Many do not have windows. The administration offices, cafeteria and bookstore are located away from the teaching areas. Every square foot of each building has been maximized. There is no room for expansion. The current campus does not support growth.
- **Accessibility Challenges:** With the exception of the administration building, known as 360, and Tuzzy Library, every structure on campus has two-stories. None of the buildings have elevators. Building 360 is handicapped accessible, but none of the Huts where classes are held are.

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

- **Other Hazards:** Human-caused environmental hazards include potentially contaminated sites. The Alaska Department of Environmental Conservation (ADEC) has identified sixteen sites around Barrow in their contaminated sites database. Of those sixteen sites, eight are on or near the Iḷisaġvik College campus. Of those eight, five are considered active and have ongoing efforts for cleanup. According to ADEC, a major issue for the NARL sites is the continued amount of contaminants exceeding the numbers that were identified for cleanup as well as the migration of contamination to surface water shoreline compliance units. (See chart below.)



Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

Site Name	City	State	Status	Spill Date	Concern
NARL - Powerhouse Fuel Spill	Barrow	AK	Open	10/17/1988	Soil contaminated with diesel and TPH. Active zone water has diesel, TPH, and 1030 ug/l BTEX. Reportedly a 10,000 gallon JP-5 fuel spill occurred at the site in 1958
NARL - Airstrip Fuel Spill	Barrow	AK	Open	10/17/1988	Several fuel spills of mogas and JP-5 occurred from various locations at this site, primarily confined to the hangar area. The site is assigned a HIGH site rank.
NARL - Bulk Fuel Tank Farm	Barrow	AK	Open	10/17/1988	Site of former bulk fuel tank farm which piped fuel to NARL facility. Confirmed POL contamination in soil and active zone water. The site is assigned a HIGH site rank.
NARL - Middle Salt Lagoon	Barrow	AK	Open	10/17/1988	Benzene has been documented in surface water. Contamination is transported by surface water and active zone water. The site is assigned a HIGH site rank
NARL - Naval Arctic Research Lab	Barrow	AK	Open	10/17/1988	Gasoline, diesel spills of at least 700,000 gallons dating from 1970s. Also possible PCB contamination. Active soil layer from ground surface to about 20-55 inches below ground surface.
NARL - Old Waste Disposal Area	Barrow	AK	Cleanup Complete - Institutional Controls	10/17/1988	The 50-acre disposal area is located in the northwestern corner of the 535.5-acre Antenna Field Property. Many types of waste were disposed of including honey buckets, waste solvents, waste oils.
NARL - Former Dry Cleaning Facility	Barrow	AK	Cleanup Complete	10/17/1988	Stoddard solvent was used in dry cleaning operation at this facility from 1948 to 1974. The solvent was disposed of through floor drains to ground surface until 1972.
NARL - Radiation Laboratory	Barrow	AK	Cleanup Complete	10/17/1988	Through document reviews, interviews, and radiological surveys, no evidence of radiological contamination was found.

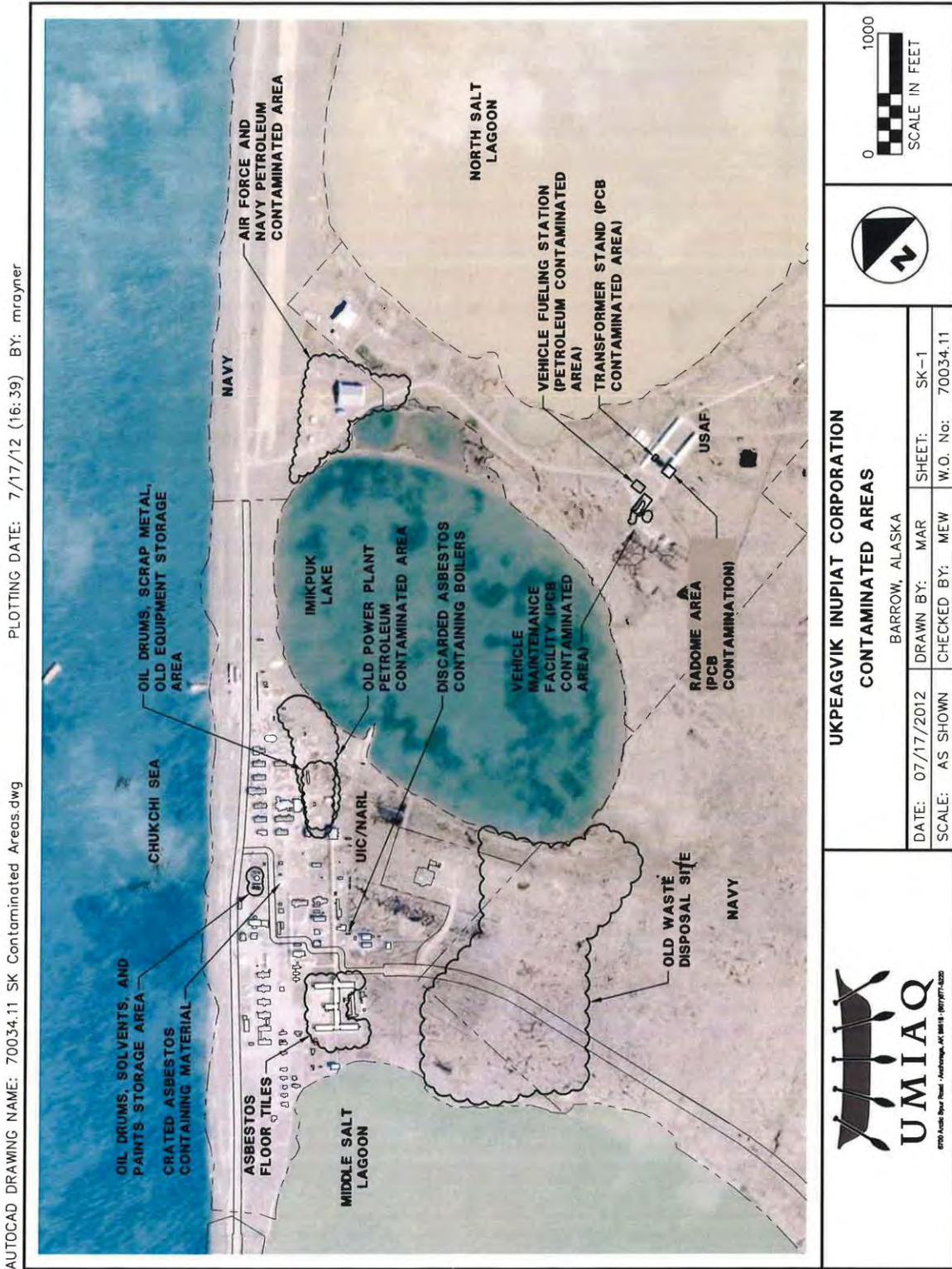
Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

# Iḷisaḡvik College Existing Conditions Analysis



Approved: 12/2/15  
 Updated Draft Approved: 4/29/16  
 Updated, Approved: 4/14/17  
 Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

- **Aging and Failing Systems:** The Iḷisaġvik campus has buildings constructed as early as the 1940s and as late as the 1990s. They were not designed for educational purposes and they were not built with green technology. They are heavily insulated to withstand the arctic weather, but they are not adequately ventilated. There are times when the only way to cool off an office/classroom is to open the window, even when the outside temperatures are well below zero. Only one building, the Browerville Learning Annex, is on the centralized utility system known as the Utilidor, which provides for potable water and sewage collection. The electrical lines and telephone cables are also housed in the Utilidor. The NARL campus has to depend upon daily delivery of water via Iḷupiat Water and the Ukpeaġvik Iḷupiat Corporation (UIC.) The North Slope Borough and UIC pump sewage from holding tanks, which is processed at the on-site sewage treatment facility. The only on the NARL complex, Building 360, is built on pilings to keep the structure off the permafrost. All the other buildings are on slabs directly on the tundra. The heat from the buildings causes the permafrost to thaw and the ground to shift. The toilets in these buildings are lifted off the floor with homemade platforms, which makes for challenges with waste disposal. The lift stations in the main campus building are antiquated and unreliable. It has been necessary to release employees from the workplace due to offensive odors resulting from leaking and/or broken lift stations.
- **Inadequate Technology: Inadequate Technology:** The facility was built decades before the use of personal computers. Iḷisaġvik Information Systems (IS) has created a server room by retrofitting an office space. In 1998, the server room consisted of four racks with three Banyan Vines servers. The Banyan servers maintained the network file shares and printer services, the Netware server hosted the Solomon financial software and the Microsoft server hosted the Registrar software package PowerCampus.

The Server room is not connected to emergency backup power, in the event of a power outage its continued operation is limited by the use of Uninterrupted Power Supplies. These UPS will keep servers operating up to 30 minutes depending on the condition of the battery and load placed on the UPS.

In the event of a fire, sprinkler leak or sprinkler system malfunction the College's network servers and core infrastructure could be destroyed causing a complete loss of services to students, staff and faculty. An additional space is also needed to allow the IS department to create a disaster recovery site to allow minimal computer operations until primary system services can be restored. This additional space would also be required to be connected to the emergency backup power.

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

# Iḷisaġvik College Existing Conditions Analysis

---

## BUILDING SPECIFIC CONCERNS:

- **Building 360—Campus Administration, Dorms, Cafeteria:** Building #360 is one of the contaminated site areas identified by the US Navy. There was a fuel spill that has permeated the permafrost 20” -55”. There are also asbestos floor tiles. The generator for the building was replaced in 2014, but it does not provide backup for key operating systems for the College, including IT. There is lead in the solder joining the copper water pipes. The building has 24/7 public access.

The building has undergone a myriad of changes over the years. The only constants have been the cafeteria space and the Dr. Albert Conference Room. Currently, the building houses all but one of the executive level offices, registration, the business office, the Student Success Center, Information Services, other administrative offices, and the dormitories.

- **Cafeteria:** the kitchen space is cramped and there is limited storage space. Most of the food is stored in a warehouse that is not connected to the building. The dining area is large and it is very difficult to regulate the temperature in the room.
  - **Registration:** two offices are occupied by Registration/Admissions. This is an area of high security and many files must be retained in perpetuity. There is no security. During spring and fall registration, areas must be set up in the Dr. Albert conference hall to accommodate all the students and faculty. Little privacy is offered to students who need advice and assistance with the registration process. Items used for commencement ceremonies are stored in several areas throughout campus.
  - **Offices:** Many of the office spaces are inadequate. Some spaces are large, but not large enough for two work stations. Other offices are very small and only accommodate a desk and chair. Due to an aging boiler system, the temperatures in the offices vary greatly.
  - **Information Services:** The spaces dedicated to IS are spread throughout campus. The offices for our technicians are at the opposite end of the building from where the server and telephone rooms are housed. Their space is crowded and lacks storage. The server rooms have a sprinkler fire-suppression, which is inadequate and unsafe fire protection for sensitive electronics. The server room has been carved out of former office space. Holes have been drilled in the floors to keep the room from overheating.
  - **Dormitories:** Due to lack of housing in Barrow, the dormitories are used by both students and faculty/staff. They are basic, with twin beds, a dresser and a closet. The bathroom facilities are not private. In 2014, the bathrooms were renovated to accommodate the American’s with Disability Act guidelines. The only handicapped access to the dormitories is at the opposite end of the building, approximately 40 yards away from the dorms themselves. We have now instituted a locked door policy between the hours of 11 pm and 7 am; thereby, limiting public access to Building 360.
- **Building #5:** is being used primarily by the Workforce Development (WFD) and Cooperative Extension staff. There is a mid-sized classroom and a large, open-to-the-ceiling storage/work bay/training area downstairs. Upstairs houses four offices and a

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis



Crumbling Foam Ceiling

small meeting room. The building is not handicapped accessible and there is no elevator. Workforce Development hosts classes with the highest participation rates. The classroom quickly becomes too crowded. There is one bathroom downstairs, the entrance of which is located in the classroom itself. It lacks privacy. The classroom is uncomfortably warm due to improperly insulated boiler pipes. The windows do not open fully. The storage/training/workspace space is co-utilized by WFD and Iḷisaġvik's Maintenance and Operations (M&O.) M&O parks heavy equipment in Building 5 to prevent damage due to harsh environmental conditions. The equipment must be constantly shuffled back and forth to accommodate classroom/training needs. The building is insulated with a yellow spray-on insulation that is extremely flammable. The spray-on, fire-blocking coating (popcorn) is crumbling, leaving the insulation exposed. There is a small area fenced off for M&O supplies. WFD has many training items that need secure, clean storage, which is currently lacking. The upstairs offices are small, cramped and inadequately ventilated.

- **Hut #58:** Houses the academic programs, including Allied Health. This Quonset hut was built in 1965. Non-friable asbestos is present as a component of wall boards in the boiler or "Dravo" room. These rooms have to remain locked and not used. There is no room for expansion of any kind. Every usable space of the building has been utilized as classroom and/or office space. The building is two-stories, but does not have an elevator. Many of the faculty offices do not have windows which causes egress issues in case of fire or required evacuation. There is no handicapped access. The only possible changes to the building are the reconfiguration of office/classroom space, but the issue of asbestos keeps those options limited.
- **Hut#60:** Is one of the older buildings on campus. It was built in 1948. Non-friable asbestos is present as a component of wall boards in the boiler or "Dravo" room. These rooms have to remain locked and not used. In the early 1990s two lab spaces were built out of what were originally four classrooms. Neither lab is being used to its fullest potential. The lab used by the science instructor does not meet the needs of her class. Due to limited space and asbestos, there is no possibility of retrofitting the lab. The second lab space is used by the ABE/GED program. The program is housed in Hut #60 because there is no other location for them. This is an inappropriate use of the space and does not address their needs. Renovating the space is not possible since Iḷisaġvik does not have site control. This is a two-story building without an elevator or handicapped access.
- **Hut #61:** Was built in 1948. It houses the heavy-equipment operator instructor and classes. This is another building that has areas off limits due to asbestos. This hut is configured differently than 58 and 60. Instead of several classrooms and offices, it has a large workshop area, a faculty office and a small classroom. It has similar problems to the Quonsets used for the academic programs. It is two-story and has no elevator or handicapped access. There is no room for expansion.
- **Hut # 63:** Is used by Iḷisaġvik's Construction Trades program, specifically Electrical Trades. It was built in 1958. Non-friable asbestos is present in the boiler room. This particular hut has the bathroom facilities upstairs. They are not handicapped accessible and there is no elevator. There is a large workspace, a small faculty office and a small

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

# Iḷisaġvik College Existing Conditions Analysis

classroom. Currently, renovation or remodeling the space is not an option due to lack of site control and asbestos. The space lacks significant, secure storage.



**Hut #65:** Houses Iḷisaġvik's Construction Trades program, specifically Welding, Plumbing and Pipefitting. Due to lack of teaching space, these programs cannot run concurrently. All instructors share the same office and classroom. The building is insulated with a yellow spray-on insulation that is extremely flammable. The spray-on, fire-blocking coating (popcorn) is crumbling, leaving the insulation exposed. The storage needs for these programs are immense. Connexes from the fall

cargo barges are purchased and stacked throughout the campus and used as storage containers. They are not secure, heated or easily accessed. With the closing of the only hardware/building supply store in town, the need to purchase teaching supplies early and having them arrive via the barge rather than by prohibitively expensive air cargo creates a greater need for storage. With the high cost of building and the Arctic environmental conditions, warm storage is at a premium.

- **Building #255:** Is a two-story building currently used as storage and for shipping and receiving. All the campus archives and records are stored there. In addition to paper files, items used for graduation ceremonies are stored there as are items used by the kitchen. At one point, the building was used for Construction Trades. If the records were relocated, there is a possibility of retrofitting the building for classrooms or offices, but the building is large and not well insulated. Information Services has considered putting a redundant server in this building in order to have a backup system.
- **Building #352:** Is used as the gymnasium. A new floor was poured for the ½ basketball court in 2014. There is a weight room downstairs. The bathroom is upstairs and is not handicapped accessible. Upstairs hosts the treadmills and other exercise equipment. The recreation center does not have showers or traditional, gender-specific locker rooms.
- **Browerville Learning Center:** Over 30 classes are taught at the Browerville Center (BVC) every semester. The Center is occupied approximately 90 hours each week. The building has the potential for expansion by demolishing the existing roof, adding windows and expanding the second floor to make room for two more classroom spaces. The renovation would also include another bathroom. The BVC only has two classrooms that are handicapped accessible. A Project Analysis Report was completed in 2016 and this project is currently on hold while funding for a new campus is being pursued.
- **Tuzzy Consortium Library:** The library occupies 11,500 square feet and resides within the Iñupiat Heritage Center building in Browerville. It has a main reading room and book stacks. Seating capacity in this area accommodates 65 people including 11 workstations with connections to the internet. There is an expanded children's room with play/story space, tables and seating for 20 youngsters, 3 workstations and 2 early learning stations. A new teen room has seating for 12 including 4 workstations, a classroom with seating for 20 and a videoconference room with seating for 8. Staff occupies five offices and expanded work space for the cataloger and administrative assistant and new offices and

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

## Iḷisaġvik College Existing Conditions Analysis

---

workspace for the public services librarian and archivist. There is a rare book room, a video storage room, an equipment room and a server closet. A larger storage area and large project workspace are part of the expanded staff area.

Approved: 12/2/15  
Updated Draft Approved: 4/29/16  
Updated, Approved: 4/14/17  
Updated, Approved: 11/17/17

# Ilisagvik College Existing Conditions Analysis

<b>BARROW FACILITIES</b>					
<b>Building</b>	<b>Year Built</b>	<b>Condition</b>	<b>Use</b>	<b>Site control</b>	<b>Suggested Changes and Notes</b>
360	1968	Average +	Main administration building, dorms, cafeteria, NSB Wildlife and UIC Science labs	UIC	Fire extinguishers--campus wide-\$6500 (completed Fall 2017) Door holders for lockdown zones-\$7,000 Monitoring of fire alarms--\$14,605 Server room upgrades--\$80,000 (NARL server room completed Fall 2017 – only Tuzzy Remains \$40K+ )
352	1994	Good	gymnasium	UIC	Gender-specific locker rooms with showers Additional restrooms
255	1972	Average	warehouse	UIC	Free up work space to create office space and/or classroom space- Approx. cost \$100,000
65A (#1)	1958	average	Maintenance workshop	UIC	
65	1958	average	Voc-Ed Welding, Plumbing	UIC	Needs increased storage space. Secure office for national exams.
63	1958	Average	Voc-Ed Construction	UIC	Relocate restroom facilities to the first floor
61	1948	Good	Voc-Ed Heavy Equip	UIC	
60	1948	Average	ABE/GED Academic	UIC	
58	1965	Fair	Allied Health/Academic	UIC	
5	1975	Fair -	Workforce Development/Co-op Extension	UIC	<ul style="list-style-type: none"> <li>• Expansion of the classroom in Building 5—Enlarge classroom space--approximately 270 sq feet. Add LED lighting--\$62,000</li> <li>• Install adequate ventilation/air handling.</li> <li>• It may fit perfectly where/when bathroom is vacated but also might be better in shop area where equipment is stored. * Insert 40x18 wall across building. Install commercial grade heater, man door, chain-link fence, with 6' swing gate to provide security for training equipment. \$60,000</li> <li>• Construct 2 storage rooms upstairs, sheet rocked, 2 commercial grade doors, 4 LED lights. New posts for stair railing. \$35,000</li> </ul>
4493 North Star	1975	Average +	Browerville Learning Annex	NSB	Demo existing roof, add windows, extend second floor to create additional classroom space, add new bathroom \$400,000
5644 C Street	1975	Average	Staff Housing	Ilisagvik	3-bedroom house. Kitchen, bathroom remodel in 2016.
Tuzzy Library	2012	Good	Library	NSB	Expansion completed in 2012.

Approved: 12/2/15  
 Updated Draft Approved: 4/29/16  
 Updated, Approved: 4/14/17  
 Updated, Approved: 11/17/17

# Iḷisaġvik College Existing Conditions Analysis

---

**Parking:** Currently, the NARL campus has ample parking, but not all of the parking spaces have a bull rail used to plug in vehicles during periods of extreme cold. The Browerville Center has limited parking areas.

## **Conclusions:**

- Iḷisaġvik does not have site control of any of the buildings on campus. This reduces funding opportunities.
- The numerous small buildings are inadequate for current instructional methods and should be replaced by larger, more energy efficient structures with modern classroom amenities and informal learning areas.
- Campus infrastructure and building systems are obsolete and failing and will require increased maintenance funding unless replaced.
- Many of Iḷisaġvik's buildings are located on contaminated waste sites.
- The lack of Utilidor service results in high utility costs for the College as well as health and sanitation concerns.
- The space in current facilities is maximized. There is no room for expansion within the existing configuration.

Approved: 12/2/15

Updated Draft Approved: 4/29/16

Updated, Approved: 4/14/17

Updated, Approved: 11/17/17

#### 4.0 COST ESTIMATES

The following is a rough order of magnitude construction cost estimate based on Program Needs Analysis. The site development costs assume a fully developed gravel pad over a 10 acre site. The site costs have been applied as follows: 50% applied to Phase 1; 25% applied to Phase 2; and 25% to Phase 3. The road and utility costs are included in Phase 1 only. A detailed estimate has not been performed.

Table 2 – Project Cost Estimate

PROJECT COST ESTIMATE						
Item	Description	Source of Cost	Phase 1 62,055 s.f.	Phase 2 39,647 s.f.	Phase 3 48,498 s.f.	Total
<b>Construction</b>	Building and Site (pad, utilities, road)	PAR Estimate	\$51,426,400	\$30,161,720	\$36,858,480	\$118,446,600
<b>Professional Services</b>	Design	8%	\$4,114,112	\$2,412,937	\$2,948,678	\$9,475,727
<b>Professional Services</b>	CA	4%	\$2,057,056	\$1,206,468	\$1,474,339	\$4,737,864
<b>Permit</b>	Building & COE (excludes wetland offset fees)	0.3%	\$154,279	\$90,485	\$110,575	\$355,340
<b>NSB Administration</b>	NSB Project Management	5%	\$2,571,320	\$1,508,086	\$1,842,924	\$5,922,330
<b>Art/LEED/Other</b>	Misc. Costs	2.5%	\$1,285,660	\$754,043	\$921,462	\$2,961,165
<b>Furniture Fixtures &amp; Equipment (FF&amp;E)</b>	FF&E	5%	\$2,571,320	\$1,508,086	\$1,842,924	\$5,922,330
<b>Change Order Reserve</b>		8%	\$4,114,112	\$2,412,937	\$2,948,678	\$9,475,728
<b>Contingency</b>		15%	\$7,713,960	\$4,524,258	\$5,528,772	\$17,764,990
<b>TOTAL PROJECT COST</b>			\$76,008,219	\$44,579,022	\$54,476,833	\$175,064,075
<b>Future Cost if funded in 2018 (3.5% year Inflation)</b>			\$78,668,507	\$46,139,288	\$56,383,523	\$181,191,317
<b>Future Cost is funded in 2020 (3.5% year Inflation)</b>			\$84,271,671	\$49,425,559	\$60,399,439	\$194,096,669
<b>Future Cost if funded in 2025 (3.5% year Inflation)</b>			\$100,088,310	\$58,702,059	\$71,735,587	\$230,525,956



### **New Iñisaġvik College Campus Signatures**

Iñisaġvik College has collected over **350 individual signatures** from community members in Utqiaġvik, with several more in from communities across the North Slope.

By providing their name, the signatories indicated their full support towards a New Iñisaġvik College Campus in Utqiaġvik.

Iñisaġvik College is happy to share the signature pages with CIPM at any time.

**PROJECT NAME:** Kaveolook School Replacement

**LOCATION:** Kaktovik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 06-NEW-01 TYPE: New  
DATE SUBMITTED: 2/19/2020 AMOUNT REQUESTED: 20,000,000  
REQUESTING ENTITY: NSBSD AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

**1. REQUESTING ENTITY:** NSBSD

**2. PROJECT NAME:** Kaveolook School Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is to provide funding to cover the funding gap between insurance proceeds from the recent loss of the Kaveolook School in the community of Kaktovik.

**4. PROJECT LOCATION:**

Kaktovik

**PROJECT NAME:** Kaveolook School Replacement

**LOCATION:** Kaktovik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

20,000,000

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$ 19,000,000
<b>Administration</b> (NSB project management)			\$ 500,000
<b>Contingency</b> (if not included in other line items)			\$ 500,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 20,000,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This has the potential to be phased but not recommended for phasing due to the nature of the project.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Kaveolook School Replacement

**LOCATION:** Kaktovik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

The school was a total loss after a catastrophic fire on February 6th-7th.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This will provide for a permanent replacement of the school that was lost in the fire.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

It will replace a previously existing facility and has the potential to decrease operating costs due to having new building systems

C. Indicate if this is a reoccurring upgrade or repair.

no

D. Detail outside funds being leveraged, if applicable.

Insurance proceeds from the claim

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The existing structure was destroyed in a fire.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Kaveolook School Replacement

**LOCATION:** Kaktovik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Bernadette Fischer, CIPM Program Manager (on behalf of NSBSD)		
Signature:		Date:	2/19/2020
Department Director Name: Bernadette Adams, CIPM Director			
Department Director Signature:		Date:	2-19-2020

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Districtwide Technology Upgrades

**LOCATION:** Districtwide (areawide)

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 06-NEW-02 TYPE: NEW

DATE SUBMITTED: 3/2/2020

AMOUNT REQUESTED: \$500,000

REQUESTING ENTITY: NSBSD

AMOUNT RECOMMENDED: ~~500,000~~

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** NSBSD

**2. PROJECT NAME:** Districtwide Technology Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Procure and deploy offsite backup servers for each community. This will include servers, switches, storage area network, power protection, fiber and accompanied software. Additionally, this will serve to provide replacement hardware for Kaktovik.

**4. PROJECT LOCATION:**

DISTRICTWIDE All Villages and Utqiagvik

**PROJECT NAME:** Districtwide Technology Upgrades

**LOCATION:** Districtwide (areawide)

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$500,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)	Equipment	Estimate	\$ 490,000
<b>Administration</b> (NSB project management)	NSB Project Management	Estimate	\$ 10,000
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 500,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

No phasing as this project will be requested annually and new project numbers requested annually

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Cost Breakdown will be provided at a later date.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Districtwide Technology Upgrades

**LOCATION:** Districtwide (areawide)

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The need for offsite backup servers was highlighted by the data loss experienced from the Kaktovik school fire.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will not significantly increase costs, but will provide continuity of services in the event of an emergency

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Districtwide Technology Upgrades

**LOCATION:** Districtwide (areawide)

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristine Hilderbrand, Executive Director of Operations NSBSD		
Signature:		Date:	3/2/2020
Department Director Name:			
Department Director Signature:		Date:	3-2-2020

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** NSB Gravel  
**LOCATION:** Barrow/Kaktovik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 07-272  
DATE SUBMITTED: 02/26/2020  
REQUESTING ENTITY: Public Works

TYPE: UpFund  
AMOUNT REQUESTED: \$7,250,000  
AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** NSB Gravel

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

1. Kaktovik-Roads repairs, minor upgrades, 50,000 cu yards x \$100 cu. yard = \$5,000,000

2. Barrow- Road Repairs, storm response contingency. 50,000 cu. yards x \$45 cu. yard = \$2,250,000

**4. PROJECT LOCATION:**

Barrow/Kaktovik

**PROJECT NAME:** NSB Gravel  
**LOCATION:** Barrow/Kaktovik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$7,250,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Permitting, Design	15%	\$ 1,087,500
<b>Construction / Acquisition</b> (anticipated costs)			\$ 4,937,500
<b>Administration</b> (NSB project management)	PBW Employee		\$ \$500,000
<b>Contingency</b> (if not included in other line items)		10%	\$ 725,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 7,250,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

\_\_\_\_\_

**8. PROJECT PHASING OR UPFUND:**  
 Is this a phased project or a follow-up to an existing CIP project?  No  Yes  
 If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

**PROJECT NAME:** NSB Gravel

**LOCATION:** Barrow/Kaktovik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

NSB Roads require maintenance and lifts as they shift to close to and sometimes below grade. Kaktovik does not have adequate gravel for roads and airport needs. Exploration for possible sites near the Kaktovik community would greatly benefit the community for these needs.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

no

C. Indicate if this is a reoccurring upgrade or repair.

Yes, this is an annual request until roads are all upgraded.

D. Detail outside funds being leveraged, if applicable.

none

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (if yes, include written verification)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (if yes, include written verification)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (if yes, include written verification)

Explanation, if necessary:

Roads are sinking due to permafrost decline and if roads sink below ditch level, water will settle on the roads.

**PROJECT NAME:** NSB Gravel

**LOCATION:** Barrow/Kaktovik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

If roads are not maintained it creates wear and tear on all equipment and costs time to get to areas like landfills which are outside of each community.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

N/A

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

N/A

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, Deputy Director, Department of Public Works
Signature:	 Date: 3/10/20
Department Director Name:	Scott K. Danner, Director, Department of Public Works
Department Director Signature:	 Date: 3.10.20

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** East Barrow Lot Roads

**LOCATION:** Barrow, Ak

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 07-267

TYPE: UpFund

DATE SUBMITTED:

AMOUNT REQUESTED: \$5,007,000

REQUESTING ENTITY: 3/4/2020

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:**

**2. PROJECT NAME:** East Barrow Lot Roads

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is a road construction project which consists of 5 planned phases which will bring access to approximately 255 residential lots to the community of Barrow.

Phase 1. Iigu St.: This completed phase is fully funded by the NVB at approximately \$2.7 Million. Approximately 20% of the entire project.

Phase 2 Consist of constructiong a new road (Simik which is south of Ahgeak Street) and the installation of utilities for these lots.

This phase provided access to approximately 62 residential lots. The 1st phase also included full design and permitting of all 5 phases. So each subsequent phase is shovel ready when construction dollars are made available.

With a phase 1 fully paid for by NVB, This NSB Capital Project Request is for phase 2 construction of approximately 0.63 miles of road way and the installation of gas and electric utilities which are all situated south of existing Ahgeak Street to provide access to 62 Lots.

**4. PROJECT LOCATION:**

Barrow, Ak

**PROJECT NAME:** East Barrow Lot Roads  
**LOCATION:** Barrow, Ak

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$5.07 Million for Phase 2. Remaining Phases are estimated approximate \$5.07 Million per phase based on most recent estimates using UMIAQ's utilities estimations on NSB Barrow's Comprehensive plan. Total of phases 2-5 is estimated at approximately \$20.28 Million. See attachments for full project breakdowns of cost and a phase exhibit map.

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$ N/A
<b>Professional Services</b> (Design, legal, other)	12% of construction	Engineer Estimate	\$ 1,671,406
<b>Construction / Acquisition</b> (anticipated costs)		Engineer Estimate	\$ 13,928,381
<b>Administration</b> (NSB project management)		Engineer Estimate	\$ 1,559,979
<b>Contingency</b> (if not included in other line items)		Engineer Estimate	\$ 3,119,958
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 20,279,724
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This funding is for the project to be built phases 2-5 planned over the next 4 years at \$5 Million a year.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Not an Areawide project.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Approximately \$5.07 Million for the first year and approximately \$15.2 Million in future years

**PROJECT NAME:** East Barrow Lot Roads

**LOCATION:** Barrow, Ak

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

There is a housing crisis in Barrow and this project will alleviate some of this.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Phase 2 of the project will add approximately 0.63 Miles of road to Barrow's existing road infrastructure, providing access to approximately 62 residential Lots (Phase 2 only)

C. Indicate if this is a reoccurring upgrade or repair.

Reoccurring road repair and utility is anticipated.

D. Detail outside funds being leveraged, if applicable.

The Native Village of Barrow has dedicated approximately \$3 Million to this project's 1st Phase. Approximately 20% of the total project cost phases 1-5.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** East Barrow Lot Roads

**LOCATION:** Barrow, Ak

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

Attachment A: Phase Map and Project Cost Breakdowns.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	
Signature:	Date:
Department Director Name:	
Department Director Signature: 	Date: 3.2-20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** ROAD Improvement Project

**LOCATION:** Barrow

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~57277~~ 07-277 TYPE: UpFund

DATE SUBMITTED: 03/10/2020

AMOUNT REQUESTED: ~~x180,053.00~~ \$1,180,000

REQUESTING ENTITY: ~~Barrow~~ Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** ~~Barrow~~ Public Works

**2. PROJECT NAME:** ~~ROAD Improvement Project~~ AW Road Improvement Project

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Road Improvement project Kiogak St., fro Nachik to Agvik an Eben Hopson from Agvik to Egasak Laura Madison fro A Avenue to Stevenson.

7,386.70 cubic yard x \$46.00 = \$339,788.00 for Kiogak and Eben Hopson

17,631.10 cubic yard x \$46.00 = \$811,030.00 for Laura Madison

Wages \$ 29,235.00

Grand Total \$1,180,053.00

**4. PROJECT LOCATION:**

Barrow

**PROJECT NAME:** ROAD Improvement Project

**LOCATION:** Barrow

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$1,180,053.00

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$ 1,150,818.00
<b>Administration</b> (NSB project management)	PBW Employee	PBW Employee	\$ 29,235.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,180,053.00
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

**PROJECT NAME:** ROAD Improvement Project

**LOCATION:** Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Road improvement

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Roads are sinking below culvert and ditch levels and if that happen water will settle o the roads and deteriorate the roads.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

no

C. Indicate if this is a reoccurring upgrade or repair.

Yes, every 5 years.

D. Detail outside funds being leveraged, if applicable.

none

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Roads are sinking due to permafrost decline and if roads sink below ditch level, water will settle on the roads.

**PROJECT NAME:** ROAD Improvement Project

**LOCATION:** Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

N/A

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

N/A

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, Deputy Director, Department of Public Works	
Signature:		Date: 3/10/20
Department Director Name: Scott K. Danner, Director, Department of Public Works		
Department Director Signature:		Date: 3-10-20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Gaswell Road Upgrade Phase 1

**LOCATION:** Barrow, Ak

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 07-279

TYPE: ~~New~~ UpFund

DATE SUBMITTED: 03/10/2020

AMOUNT REQUESTED: \$2,400,000

REQUESTING ENTITY: NSB Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** NSB Public Works

**2. PROJECT NAME:** Gaswell Road Upgrade Phase 1

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The first phase of this project would upgrade the existing roads in the east Barrow Gas Fields in Barrow from the end of Cakeeater Road. Just past the landfill turnoff, as Shown in two segments in the site plan submitted with this request.

The gas field roads were constructed from 1979 to 1980 by placing five of compacted gravel fill over the tundra surface without insulation. The gasfield road embankments have subsided into the tundra. The top surfaces of the roads are at the same elevation as the adjacent tundra surface. Water ponds on these roads during thawed conditions and snow accumulates on the roads during freezing conditions. The roads need to be raised above the tundra surface.

It is essential that gasfield personnel have dependable access to this critical infrastructure to ensure reliable service to residents year round.

The east Barrow Gas Field Includes 11.84 miles of roads. The entire project would consist of:

- Placing geotextile and two two feet of fill over existing road embankments.
- Reduce road widths by 2 to 6 feet.
- Install 35 culverts of various sizes.
- Install signs and flexible markers along the roadway

A PAR and draft 35% design are complete.

**4. PROJECT LOCATION:**

Barrow, AK

**PROJECT NAME:** Gaswell Road Upgrade Phase 1

**LOCATION:** Barrow, Ak

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$2,400,000

The Total request for Phase 1 is: Phase 1 construction (\$2,000,000), NSB admin costs (200,000), and contingency (\$200,000) for a total request of \$2.4 Million.

\$1,900,000 Awarded in 2019. 2.4 Million requested in 2020 to complete construction.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)	Project Analysis Report	Actual Cost	\$ 100,000
<b>Professional Services</b> (Design, legal, other)	Design and construction administration 8%	PAR Estimate, Increased 2% for phased projects	\$ 1,400,000
<b>Construction / Acquisition</b> (anticipated costs)	Construction	PAR Estimate	\$ 17,500,000
<b>Administration</b> (NSB project management)	NSB Project Management 5%	PAR Estimate	\$ 1,750,000
<b>Contingency</b> (if not included in other line items)	20%	PAR Estimate	\$ 4,375,000
<b>Other Costs</b> (with description)	Escalation 2.5%	PAR Estimate	\$ 1,260,000
<b>TOTAL</b>			\$ 4,300,000
<b>TOTAL PROJECT COST</b> (if different)			\$ 26,385,000

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

The project could be phased over five or more years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Approximately \$5.5 Million would be needed annually for four additional years to fund the entire project.

**PROJECT NAME:** Gaswell Road Upgrade Phase 1

**LOCATION:** Barrow, Ak

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Utility roads in barrow were assigned a 80 years life span, unrealistic when considering that the roads were constructed without insulation or culverts. While these utility roads have been continuously maintained, the nature of their 1980 design limits their use for another 40 years without significant.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The existing roads, experience flooding, wet, and undrivable conditions, especially during spring break up. During thaw, the roads become soft, during freezing conditions, snow accumulates. Both of these conditions restrict NSB's Operations as well as community access.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project would likely decrease road maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is a request for a needed upgrade.

D. Detail outside funds being leveraged, if applicable.

None

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Gaswell Road Upgrade Phase 1  
**LOCATION:** Barrow, Ak

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include written verification)  
Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

NSB East Barrow Gas Field Roads PAR 35% Drawings Site Plan C2.0:

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, RA&S Division Manager	
Signature:		Date: 2/10/20
Department Director Name: Scott K. Danner, Director		
Department Director Signature:		Date: 3-10-20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:**  
**LOCATION:**

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER:                      TYPE:  
DATE SUBMITTED:    AMOUNT REQUESTED:  
REQUESTING ENTITY: Housing Department              AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Housing Department

**2. PROJECT NAME:**

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

**4. PROJECT LOCATION:**

---

**PROJECT NAME:**

**LOCATION:**

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

--

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)			\$
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

--

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

--

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

--

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

--

**PROJECT NAME:**

**LOCATION:**

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:**  
**LOCATION:**

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	
Signature:	Date:
Department Director Name:	
Department Director Signature:	Date:

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** BUS New W/S Service Connections

**LOCATION:** Barrow

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~5012~~ 09-142 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$5,794,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** BUS New W/S Service Connections

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-funding request to cover construction, design, and administrative costs for new water and sewer connections to the Barrow Utilidor System. Currently, there are over 81 applications submitted for new water and sewer service connections. This Project Request is to complete the first 20 residences that are ready for connections.

**4. PROJECT LOCATION:**

Barrow

**PROJECT NAME:** BUS New W/S Service Connections

**LOCATION:** Barrow

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project request is \$5,793,913.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	A&E Design Services @8%		\$ 324,135
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Historic costs	\$ 4,051,688
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 405,169
<b>Contingency</b> (if not included in other line items)	25% Contingency		\$ 1,012,922
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 5,793,913
<b>TOTAL PROJECT COST</b> (if different)			\$ 17,961,131

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project is a continuation of the Barrow Service Connection project.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

\$5,793,913 is needed to install 20 connections. To install the remaining 40 connections, an additional \$12,167,218 will be needed.

**PROJECT NAME:** BUS New W/S Service Connections

**LOCATION:** Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Re-funding this project is necessary in order to provide basic water and sewer service to new applicants and decrease dependence on hauled water and sewer.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will expand facilities and meet the Borough's mission to increase the availability of clean water and sanitary sewer disposal to residents.

C. Indicate if this is a reoccurring upgrade or repair.

This is a recurring up-fund request.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** BUS New W/S Service Connections  
**LOCATION:** Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

Considerable effort and resources are need to maintain truck haul to services that are on holding tanks.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager	
Signature:		Date:
Department Director Name:	Scott K. Danner, Public Works Director	
Department Director Signature:		Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Wainwright Water Treatment Plant Upgrade  
**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 50014509-145 TYPE: Upfund  
DATE SUBMITTED: 3/11/2020 AMOUNT REQUESTED: \$6,490,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Wainwright Water Treatment Plant Upgrade

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project requests additional funding for construction upgrades to the Water Treatment Plant (WTP) for the community of Wainwright. This project replaces two of the three buildings associated with the Wainwright WTP which have reached the end of their serviceable life. The existing foundation has documented pile concerns, the maintenance building bay floor has failed, the heating boilers have reached the end of their life and refurbishment is not an option as they are undersized and parts no longer available. The Wainwright WTP is one of the oldest plants on the North Slope and is in a seriously dilapidated state.

The maintenance building and the boiler/pump building will be demolished and a 4700 square foot addition to the treatment building will be constructed. The new addition will house the garage/maintenance room, a mechanical room for new larger boilers, heat exchangers, fire pump, distribution pumps, chemical storage rooms, administrative office space, a break area, rest rooms, and storage.

The project design was shelved in 2013 because of a lack of construction funds. Funds were approved during the 2018-10 funding cycle in the amount of \$175,000 to bring the shelved 95% design up to current codes and standards. CIPM engaged the engineering firm that had brought the design to 95% and entered into contact. Construction funding was approved through 2019-10 in the amount of \$9,558,000 with the requested funding amount based on escalation of the 2013 construction estimate. Once construction funding was secured, the contract with the Engineer of Record Firm was change ordered to take the design to bid documents.

The bid opening for the AIN WTP Upgrades construction was held March 5, 2020 with the bid amounts as follows: (1) \$10,890,000, (2) \$12,085,452, and (3) \$14,275,000. This exceeded the high end of the new Construction Estimate released in January 2020 from the Engineer of Record. As of Bid date, the project balance was approximately \$1,500,000 short to award the construction bid to the lowest responsive bidder. Additionally, we do not have a contract in place for Construction Administration Services. CIPM received a Proposal from the Engineer of Record to provide 18 months of CA Services for \$1,300,000. Bid Results and the CA Services Proposal are attached.

**4. PROJECT LOCATION:**

Wainwright

**PROJECT NAME:** Wainwright Water Treatment Plant Upgrade

**LOCATION:** Wainwright

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Total estimated cost of Construction and CA Services: \$12,300,000. (Based on March 5, 2020 bid and CA Services Proposal)  
 10% Direct Cost Administration: \$1,230,000, 20% Contingency: \$2,460,000  
 \$1,500,000 Construction + \$1,300,000 CA Services + \$1,230,000 DCA + \$2,460,000 Contingency.  
 Total funds deficient and requested: \$6,490,000

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Construction Administration	Engineer Quotation (Jacobs)	\$ 1,300,000
<b>Construction / Acquisition</b> (anticipated costs)	Cost is amount deficient to award March 5 bid	Bid Results - March 5, 2020	\$ 1,500,000
<b>Administration</b> (NSB project management)	10% Direct Cost Administration	10% of \$12,300,000	\$ 1,230,000
<b>Contingency</b> (if not included in other line items)	20% Contingency	20% of \$12,300,000	\$ 2,460,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 6,490,000
<b>TOTAL PROJECT COST</b> (if different)			\$ 15,990,000

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-145 Wainwright WTP Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Phasing will be difficult as construction requires sequencing and coordination to keep the plant operating while under construction.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

This is not an areawide project.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This is not a phased project.

**PROJECT NAME:** Wainwright Water Treatment Plant Upgrade

**LOCATION:** Wainwright

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project was scheduled for replacement in 2013.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

A new addition to the WTP will provide a new maintenance shop, chemical storage room, new heating and pumping equipment, a new office, break room and bathrooms. Updated work areas will provide a more modern and efficient use of space.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will not expand facilities or services, but will replace outdated and seriously dilapidated facilities reducing operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

No

D. Detail outside funds being leveraged, if applicable.

None

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The floor of the maintenance bay has failed and portions of the bay are barricaded off for safety. Some of the pilings under the portion of the plant that will be retained need to be cut off at ground level and have steel pilings attached.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Wainwright Water Treatment Plant Upgrade

**LOCATION:** Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

An updated facility will reduce maintenance costs directly associated with the Wainwright WTP.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: WH Pacific PAR, 2010

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

2010 WH Pacific PAR, Jacobs Design Trip Report dated June 28, 2019, Construction Bid Opening Results from March 5, 2020, Engineer of Record CA Services Proposal.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name: Scott Danner, Public Works Director	
Department Director Signature:	Date: 3.11.20

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AKP Water & Sewer Connections Phase 1

**LOCATION:** Anaktuvuk Pass

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~59-118~~ 09-148 TYPE: Upfund  
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: \$3,377,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AKP Water & Sewer Connections Phase 1

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Anaktuvuk Pass has 21 homes that have requested service connections to the piped water and sewer system. These homes are currently receiving tank truck haul service or are served by honey bucket. The village water supply and water treatment/distribution plant has the capacity to support the new services. The wastewater treatment plant is adequately sized for the additional services. Very few homes have been added to the piped system since it was installed in the late 1990's.

Completion of this project will move homes from truck haul to piped water and sewer.

2019 PRC appropriated funds anticipating approximately 10 services to be connected out of the original 21 scoped.

Additional scope for this project adds connection of the Senior Center, NSB Itinerate Housing and 5 TNHA homes to the service connection scope. These buildings were not in the original project design and have been added to the service connection list since. The Senior Center is fully occupied and is tanker service intensive for Public Works. At times of high occupancy, the NSB Itinerate House also puts high demand on the truck service.

**4. PROJECT LOCATION:**

Anaktuvuk Pass

**PROJECT NAME:** AKP Water & Sewer Connections Phase 1  
**LOCATION:** Anaktuvuk Pass

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC Appropriation \$1,850,000  
 2020 request \$3,376,226

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)	Project Analysis Report	Previously funded @ 142,360	\$
<b>Professional Services</b> (Design, legal, other)	Design & Construction Administration	Previously funded @628,935. Costs are for new scope	\$ 35,000
<b>Construction / Acquisition</b> (anticipated costs)	CNST/PM/Profit/OH	Design estimate Inflation adjusted plus new services	\$ 2,661,248
<b>Administration</b> (NSB project management)	CIPM Admin @10% Total	Historical	\$ 251,325
<b>Contingency</b> (if not included in other line items)	20% of Construction Costs		\$ 428,650
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 3,376,223
<b>TOTAL PROJECT COST</b> (if different)			\$ 5,997,518

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-148 Anaktuvuk Pass Water & Sewer Connections Phase 1

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Project funding was provided in part for 2019. Additional phase can be accomplished with this request.

**PROJECT NAME:** AKP Water & Sewer Connections Phase 1

**LOCATION:** Anaktuvuk Pass

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project is for new infrastructure that will be added to the Repair & Replacement Schedule once it is completed.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will expand the service levels of the piped water and sewer system to 21 homes plus 7 newly scoped homes and buildings that are currently using honey buckets or are on the truck haul system.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand services to up to 28 homes, but will reduce operating and maintenance costs of water and sewer truck haul currently provided for these services.

C. Indicate if this is a reoccurring upgrade or repair.

N/A.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** AKP Water & Sewer Connections Phase 1

**LOCATION:** Anaktuvuk Pass

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: Anaktuvuk Pass Water & Sewer Connections - Phase 1, 2013

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

Design is completed on this project.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager		
Signature:		Date:	
Department Director Name:	Scott K. Danner, Public Works Director		
Department Director Signature:		Date:	3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AW Water Storage Tank Upgrades

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~XXXX~~ 09-149 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$12,527,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AW Water Storage Tank Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is for upgrades to water storage tanks in Point Lay and Wainwright. The project design has been completed for the Point Lay tank.

In Point Lay, the East Tank repairs include the complete removal of the existing tank roof insulation system, re-coating of the tank roof surface, and installation of a new metal clad insulation system. The coating system is worn, with several large areas of the tank roofing where the coatings have failed, and insulation is exposed. The upper layers of the roof have been saturated and are degrading. Re-coating of the interior of the tank will be part of this scope of work. Design is complete.

In Wainwright, partial repairs were completed on Tank #1 to stabilize the tank's foundation, which has undergone settlement and erosion. Recommended rehabilitation will allow continued use of the tank for up to 5 years while long-term alternatives are considered for implementation. Scope funded by 2019 PRC.

New Scope Wainwright Tanks 1 and 2 were found with severely corroded floor plates and are recommended to be removed from service until the plate can be replaced. This scope is a priority for the request. Loss of this storage capacity will require additional winter water hauls or risk domestic water and fire water supplies.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** AW Water Storage Tank Upgrades  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC appropriated \$2,400,000 for Tank 1 foundation repairs  
 2020 Requests  
 Point Lay \$5,754,640  
 Wainwright Tanks 1 & T Floor \$6,771,600  
 Total Requested \$12,526,240.

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design/construction administration services		\$ 520,357
<b>Construction / Acquisition</b> (anticipated costs)	Construction Costs - Engineer's Estimate		\$ 9,428,569
<b>Administration</b> (NSB project management)	CIPM Admin @10% Total		\$ 980,857
<b>Contingency</b> (if not included in other line items)	Contingency 10% for PIZ, 20% for AIN		\$ 1,596,457
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 12,526,240
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-149 AW Water Storage Tank Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Point Lay= \$5,754,640 Wainwright= \$6,771,600

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Similar project upfunds are anticipated for approximately 5 years to upgrade the remaining NSB water storage tanks.

**PROJECT NAME:** AW Water Storage Tank Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Corrosion Protection replacement due in 2010 for Point Lay East Tank. Recent inspections on Wainwright tanks determined that the floor plate is thin and recommended removed from service until upgraded.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will increase the service life of the existing NSB water storage assets. The existing tank in Point Lay has damaged insulation and coatings that will contribute towards premature corrosion-based failures in the tanks. The Wainwright tank's floor plate require replacement to prevent structural failure of the tank and washout of the foundations.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will decrease the NSB operating costs by improving tank insulation.

C. Indicate if this is a reoccurring upgrade or repair.

This project is proposed as phased and expected to be recurring for approximately 5 years to upgrade all water storage tanks in service.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Tank assessments by Taku Engineering describe critical need.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** AW Water Storage Tank Upgrades

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

Engineering consultants have reviewed these water storage tanks and determined that failure to repair components of the system will lead to greater damage to NSB assets if left unaddressed.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

This project will reduce the energy used to heat treated water and ultimately protect NSB assets from failure.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

Wainwright Tank 1 Raw Water Inspection Report, 2019. Wainwright Tank 2 Potable Water Inspection Report, Wainwright Tank 1 2019 Report.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott K. Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AW Water Plant SCADA Systems Upgrades

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~59110~~ 09-150 TYPE: Upfund  
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: \$909,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AW Water Plant SCADA Systems Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

At the village Water Treatment Plants, the water treatment process (equipment panels, nano-filters and micro-filter controls) and distribution controls are antiquated and lack remote access capability. Currently all metering, troubleshooting, emergency response and program maintenance has to be done on-site. Upgrading components will allow remote SCADA (Supervisory Control and Data Acquisition) access, i.e. remote access for W&S Division review or remote operator troubleshooting.

The project involves upgrading Water Treatment Plant controls to ethernet and remote access, to include installing ethernet processors into logic racks, power supplies, ethernet bridges, switches, wiring, computers and human machine interface (HMI) devices. Develop SCADA programming for each facilities' water treatment control panels.

This is a phased project. Phase 1 Design was funded in 2016. This second phase requests construction funds for Wainwright and design and construction funds for Point Lay. The scope for these projects has increased to provide new PLC cabinets to keep the panels UL listing and code compliant.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** AW Water Plant SCADA Systems Upgrades  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This request Total: \$908,909

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design	AIN phase previously funded. PIZ request is	\$ 176,281
<b>Construction / Acquisition</b> (anticipated costs)			\$ 650,000
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 82,628
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 908,909
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-150 AW Water Plant SCADA Systems Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Point Lay: \$608,909 Wainwright: \$300,000

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

The funding for the second phase of this project is for construction in Wainwright and design and construction in Point Lay.

**PROJECT NAME:** AW Water Plant SCADA Systems Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project would improve monitoring of critical water utility systems, provide improved inventory control and alarms for water loss. Data would become available remotely to support local operators during response to incidents.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Existing water treatment control panels, nano- and micro-filter control panels, and metering devices do not support ethernet access and thus do not support remote access (SCADA). Upgrading components will allow remote SCADA (Supervisory Control and Data Acquisition) access. The project will upgrade those devices, and configure HMI devices to access process instrumentation for remote monitoring in Barrow or by remote operator. Remote monitoring will improve response time for identifying leaks, thus reducing water loss.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will replace existing process hardware that will not affect O&M costs. New HMI devices in Point Lay and Barrow will require periodic maintenance and upgrade, with minor O&M costs. Should Wonderware be used for the HMI devices, annual licensing fees will be incurred by O&M.

C. Indicate if this is a reoccurring upgrade or repair.

This project is an upgrade.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** AW Water Plant SCADA Systems Upgrades

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

Accessing the water treatment processes remotely will save travel costs and man hours to troubleshoot plant issues and respond to plant emergencies during pumping season and annual distribution.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager	
Signature:		Date:
Department Director Name:	Scott K. Danner, Public Works Director	
Department Director Signature:		Date: 3.20.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** BUS Service Connections Upgrades

**LOCATION:** Utqiagvik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~55X52~~ 09-152 TYPE: Upfund  
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: \$1,789,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** BUS Service Connections Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-funding request to cover construction, design, and administrative costs for upgraded water and sewer service connections to the Barrow Utilidor System. There are a number of services in the BUS that are reaching the end of their useful life. More than 40 services have required repeated and costly repairs. Upgrades to these service connections will reduce repeated O&M costs to maintain service. This up-funding request will cover construction, design and administrative costs to provide upgrades for the Barrow 21 Singles block above grade services and 10 additional above-ground services.

**4. PROJECT LOCATION:**

Utqiagvik

**PROJECT NAME:** BUS Service Connections Upgrades  
**LOCATION:** Utqiagvik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC funding \$647,000  
 This Request \$ 1,788,500 - Total Request  
                   \$ 85,167 - Per service above-ground upgrades

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	A&E Design Services @ 10%		\$ 123,000
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Historic costs	\$ 1,232,000
<b>Administration</b> (NSB project management)	CIPM Admin @10%		\$ 135,500
<b>Contingency</b> (if not included in other line items)	@20%		\$ 298,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,788,500
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes  
 If yes, indicate name and CIP project number: 59-117 BUS Service Connections Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

BRW 21 singles should be completed at \$938,833, followed by 10 additional services at \$851,667

**PROJECT NAME:** BUS Service Connections Upgrades

**LOCATION:** Utqiagvik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This will correct problematic services that are requiring emergency repairs and need replacing.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Up-funding this project is necessary in order to upgrade existing problematic water and sewer service connections that continually drain the O&M budget.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Upgrading existing problematic water and sewer connections will reduce emergency repairs and reduced the O&M budget.

C. Indicate if this is a reoccurring upgrade or repair.

This is a recurring upgrade to the system.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** BUS Service Connections Upgrades

**LOCATION:** Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Services with costly repeated repairs will be upgraded, significantly reducing the O&M budget spent on emergency repairs.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott K. Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** BUS SCADA Monitoring System

**LOCATION:** Barrow

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~50X33~~ 09-153 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,132,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** BUS SCADA Monitoring System

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The scope for this project request is to implement SCADA (Supervisory Control and Data Acquisition) systems in the Barrow Utility System (BUS). The SCADA would provide instant feedback to the BUS operators as to water distribution network flow rates, system pressure, and temperatures at key nodes of the system. System imbalances or decreasing temperatures would provide notice to operators of potential problems in the distribution system, and provide tools to troubleshoot those issues.

2016 funding was approved for the design. This request is for SCADA implementation once the design is complete. 100% Design Documents have been completed and awaiting construction funding.

**4. PROJECT LOCATION:**

Barrow

**PROJECT NAME:** BUS SCADA Monitoring System  
**LOCATION:** Barrow

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project cost \$2,305,689  
 Funding 2016 PRC \$150,000 + \$41,000 in BLT  
 This request \$2,131,689

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)	PAR	Recoverable Costs	\$ 70,391
<b>Professional Services</b> (Design, legal, other)	Design and Construction Administration Services	Actual Design Cost (174K) need CA services	\$ 150,000
<b>Construction / Acquisition</b> (anticipated costs)	Construction Costs	PAR Estimate	\$ 1,553,552
<b>Administration</b> (NSB project management)	CIPM Administration 10%	PAR Estimate	\$ 170,355
<b>Contingency</b> (if not included in other line items)	10% of Construction		\$ 187,391
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 2,131,689
<b>TOTAL PROJECT COST (if different)</b>			\$ 2,305,689

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-153 BUS SCADA Monitoring System

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** BUS SCADA Monitoring System

**LOCATION:** Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

During February 2015, over 90 homes were without service at peak interruption (approximately 7% of Barrow customers). This was a significant event that might have been avoided if SCADA was in place.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The BUS would benefit by having additional tools available for system monitoring, prediction of freeze-ups or locating leaks. The existing inspection methods are snapshots in time, that are compared daily. SCADA provides instant feedback and data can be compared over shorter periods of time, increasing operator response times, and reducing water system freeze ups.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project would provide a minor increase facilities, mainly in terms of new components and support constructions within existing utilidor and BUS office. However, by adding the monitoring equipment, response time for operations would increase, possibly stopping freeze up issues before they start.

C. Indicate if this is a reoccurring upgrade or repair.

This would be a one time project.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The recent impacts to the water distribution system affected many residents. Their access to drinking water was interrupted, as well as means for basic sanitation.

**PROJECT NAME:** BUS SCADA Monitoring System

**LOCATION:** Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

This project would be a preventative measure to reduce operating costs relating to freeze-ups and leaks. Both response types involve many manhours and overtime to resolve. Responding to a water main in the process of freezing is less costly than responding to a frozen water main.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: 2015-13 BUS SCADA Water Flow Monitoring

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager		
Signature:		Date:	
Department Director Name:	Scott K. Danner, Public Works Director		
Department Director Signature:		Date:	3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Water Systems Major Repairs Project

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~19-155~~ 09-155 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$3,000,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Water Systems Major Repairs Project

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-fund request for the Areawide Water Systems Major Repairs Project. No specific amount is budgeted per village, rather an estimated amount of money is requested to implement proactive upgrades and improvements, and upgrades required to correct system failures.

This project funds the replacement of pipe, installation of trench plugs and insulation, the purchase of gravel, and the replacement of system components.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide Water Systems Major Repairs Project  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$3,000,000 is anticipated to be used this funding cycle.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Engineering support, 10%		\$
<b>Construction / Acquisition</b> (anticipated costs)	Emergency Repairs and System Upgrades		\$
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-127 Areawide Water Systems Major Repairs

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Water Systems Major Repairs Project

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project funds upgrades to components experiencing unexpected failure and which are not on the Repair and Replacement Schedule.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

**A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.**

Between 2013 and 2017 there was a significant increase in the number of below-ground leaks in all eight villages. The summer of 2019 was also without precedent for leaks. Water is treated in summer months and stored for winter use, and water loss threatens the domestic and fire water supply. Below-ground leaks indicate significant changes that have taken place in the buried utility system. Failure to repair leaks destabilizes the supporting permafrost, further compromising the water system. Service interruptions impact the availability of potable water for basic human health and sanitation, as well as fire water protection to the community. Proactive upgrades and improvements to the system will create more stable and reliable water utilities in the villages, reducing the need for emergency repairs.

**B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.**

**C. Indicate if this is a reoccurring upgrade or repair.**

This is a recurring up-fund request.

**D. Detail outside funds being leveraged, if applicable.**

**11. Please respond to the following questions:**

**A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Areawide Water Systems Major Repairs Project  
**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

The project covers proactive upgrades and improvements that impact the public utility's ability to provide services. Without the upfund, the NSB would incur greater costs in labor, equipment, and energy resources. Proactively implementing upgrades to the system will significantly reduce the costs spent on emergency repairs in the future.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager		
Signature:		Date:	
Department Director Name:	Scott K. Danner, Public Works Director		
Department Director Signature:		Date:	3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** PIZ Drinking Water Source Development

**LOCATION:** Point Lay

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 09-158

TYPE: ~~New~~ UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,158,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** PIZ Drinking Water Source Development

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

With the failure of the berm at the fresh water lake, a reliable drinking water source needs to be found. Extracting water from the thaw bulb under the lagoon could provide a year-round source.

This project request is for funds to drill test wells under the Kasegaluk Lagoon and analysis of the level of treatment required for drinking water production. In addition, the project will install approximately 1,300 linear feet of pipeline to connect the new water well into the treatment plant, and upgrade treatment equipment.

PRC 2019 funded Phase 1 \$3,600,000

**4. PROJECT LOCATION:**

Point Lay

**PROJECT NAME:** PIZ Drinking Water Source Development  
**LOCATION:** Point Lay

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC funded Phase 1 at \$3,600,000  
 This request is for new well house, pipeline, facility and process upgrades is approximately \$2,157,194.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Eng Report, Design, CA oversight, and permitting	Project Report	\$ 189,354
<b>Construction / Acquisition</b> (anticipated costs)		Project Report	\$ 1,515,937
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 170,529
<b>Contingency</b> (if not included in other line items)	15% Project Contingency		\$ 281,373
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 2,157,194
<b>TOTAL PROJECT COST</b> (if different)			\$ 5,805,944

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes  
 If yes, indicate name and CIP project number: 59-158 PIZ Drinking Water Source Development

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 2 - Facility and process upgrades \$2,157,194.

**PROJECT NAME:** PIZ Drinking Water Source Development

**LOCATION:** Point Lay

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Since the draining of the fresh water lake in PIZ, a temporary water source has been used. A permanent water source needs to be developed.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

With the failure of the berm at the fresh water lake, a reliable drinking water source needs to be found. Extracting water from the thaw bulb under the lagoon could provide a year-round source.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will expand facilities by adding a well and Reverse Osmosis treatment. But, the project will also allow for other facilities to be taken off-line. Point Lay West Tank tank may be able to be taken off-line. The tank is need of repair and cost for repair work is estimated to be between \$2,000,000 to \$5,000,000 depending on a current condition of the interior paint systems.

C. Indicate if this is a reoccurring upgrade or repair.

Not reoccurring.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Breach of the fresh water lake necessitates finding another source for drinking water. The Kasegaluk River was used to complete the 2016 pumping and for 2017 pumping as an interim source.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** PIZ Drinking Water Source Development

**LOCATION:** Point Lay

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

One water tank can be taken out of service, which can reduce heating costs of the tank, and also reduce repair costs of the tank.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: Point Lay Water Source Geotechnical Investigation at Kasegaluk Lagoon July 2017

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

The Project Report does not address the necessary process and facilities upgrades that are needed to make use of the new water source. Costs are included for the plant modifications.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott K. Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Secondary Water Source

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 09-159

TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$8,345,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Secondary Water Source

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Design and construction for secondary water sources in Kaktovik, Point Hope and Wainwright. Instead of constructing a new water storage tanks, a more sustainable and reliable water source can be developed for nearly year-round water production using a directionally-drilled well to access water under the ground or ice .

Wainwright's water storage capacity is less than what is needed. Early water production by truck haul is necessary every year to provide water between April and July each year at high per gallon water costs.

Point Hope's water source lake is slowly draining out and has shrunk. The longevity of the water source has yet to be determined. PRC 2019 funded Phase 1 preliminary well drilling, data acquisition and well drilling design/CA.

The first phase of this project will include data acquisition and well drilling. Subsequent phases will include design and construction of the well house and water line, and plant modification to include reverse osmosis treatment.

Benefits of this project include:

- increased reliability of potable water supply with potential for annual water supply.
- for Wainwright, elimination of \$400,000 annual early water production cost
- decreased urgency and cost of water leak repairs
- option to decrease operational and future capital costs by minimizing water storage infrastructure

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide Secondary Water Source  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

2019 PRC funded PHO Phase 1 3,595,000  
 Total request this year for PIIO: \$4,172,369  
 Professional Services \$425,700  
 NSB Admin \$303,445  
 Construction \$2,608,750 includes filtration upgrade  
 Contingency \$834,474

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)	PAR	Actual cost recovered 2019	\$ 20,333
<b>Professional Services</b> (Design, legal, other)	Data Acquisition, Design, CA	PAR estimate	\$ 3,029,700
<b>Construction / Acquisition</b> (anticipated costs)		PAR estimate with inflation	\$ 12,155,750
<b>Administration</b> (NSB project management)		10% of professional services and construction	\$ 1,518,545
<b>Contingency</b> (if not included in other line items)		25% of professional services and construction	\$ 3,796,363
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 20,500,358
<b>TOTAL PROJECT COST (if different)</b>			\$ 24,095,358

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-159 Areawide Secondary Water Source

A. If this is a new request, indicate below whether this project could be phased and over how many years.

The project can be phased by village and drilling program and above grade constructions.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

AIN \$10,399,050 KAK \$6,004,800 PHO \$7,767,369

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

PHO Phase 2, \$4,172,369. AIN Phase 3 \$3,631,000, Phase 4 \$6,769,050. KAK Phase 5 \$2,530,000, Phase 6 \$3,474,800.

**PROJECT NAME:** Areawide Secondary Water Source

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project will result in significantly improved reliability of the water systems, reduce emergency repair costs, and eliminate emergency water haul costs.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will provide access to new water sources for the communities. The water lake in Point Hope has shrunk and a new water source will be needed in coming years. Wainwright does not have enough water storage capacity to supply water to the community year-round. For the past four years, early water production has been necessary, costing \$400k per year. This project will eliminate those costs and increase the reliability of the fresh water supply.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will expand facilities and increase operating costs, but it will eliminate \$400k for each avoided emergency water haul. By this spring, early water hauls will have cost \$2 million in the past 5 years. The project will allow for existing water reservoirs to be taken offline thus minimizing the O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a recurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Areawide Secondary Water Source

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

It will eliminate \$400k for each avoided emergency water haul. By this spring, early water hauls will have cost \$2 million in the past 5 years. Water tanks can also be removed from service, reducing O&M costs.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: 68041 Secondary Water Sources for Kaktovik, Point Hope, and Wainwright.

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott K. Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AIN W&S System Major Upgrade

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 09-NEW-1    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$495,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility    AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AIN W&S System Major Upgrade

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The existing water and sewer system in Wainwright is damaged due to unstable permafrost. Water system leaks have increased in frequency and repairs are costly. The water loss jeopardizes the drinking and fire water reserves for Wainwright. Winter water hauls are now scheduled events. The repairs have become a burden on the Operations budget, and are a routine source of community concerns elevated to the Mayors Office and Assembly.

This request is a follow-up to the limited scope PAR 18-041 Alternatives to Direct Bury. Additional arctic alternatives should be considered in this phase.

For this first phase, the W&S Utility needs recommendations and conceptual designs for alternate systems the replace the existing direct bury water and sewer system ,in order to continue providing the same level of water and sewer service in the future. The project will hold NSB and community meetings to review concerns, and present the recommendations after subsequent meetings. The alternative system will be selected through the Phase 1 effort, with additional funding request for future phases based on the Phase 1 designs.

**4. PROJECT LOCATION:**

Wainwright

**PROJECT NAME:** AIN W&S System Major Upgrade  
**LOCATION:** Wainwright

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Phase 1 - \$495,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Engineering Services		\$
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: Phase 1 funding is \$500,000. Results of Phase 1 will determine future phase costs.

**A. If this is a new request, indicate below whether this project could be phased and over how many years.**

The project is proposed as phased. Anticipated duration would be based on funding for construction and may extend to 6 years.

**B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.**

**C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.**

Phase 1 funding is \$500,000. Results of Phase 1 will determine future phase costs.

**PROJECT NAME:** AIN W&S System Major Upgrade

**LOCATION:** Wainwright

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Ongoing discussions with Public Works, NSB Mayor and Assembly have produced this request. The request is the result of a need to provide residents of Wainwright a reliable water and sewer infrastructure.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project would replace damaged infrastructure. The reliability of the system will improve as well as reducing service interruptions. The existing system is stressed beyond design, and weak points show as water leaks. Permafrost instabilities have created undulations in the gravity sewer collection system that cause sewage solids to collect and block off the mains, which backs up into homes flooding floors, creating a health and human safety risk.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Operating and Maintenance costs are expected to decrease as emergency leak repairs will be reduced. Energy costs are expected to increase over the current load. The net cost impact is to the NSB is a reduction of O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

This is a one time project.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The Alternatives to Direct Bury PAR discusses the failures in Wainwright and recommends upgrades.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Access to potable water is documented as having a positive effect on human health. Similarly, removing wastewater from dwellings is documented as having positive effects. Further, eliminating the potential for wastewater backups will also improve public health.

**PROJECT NAME:** AIN W&S System Major Upgrade

**LOCATION:** Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Completion of this project will reduce emergency repair expenditures in Wainwright.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: 2013-13 AW Alternatives to Direct Bury.

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

Alternatives to Direct Bury - Point Lay Above Grade Alternative. UAF Faculty Report 2015 - Point Lay, Kali, Utility, Water, and Sewage System and Permafrost Issues Initial Findings.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager	
Signature:		Date:
Department Director Name:	Scott Danner, Public Works Director	
Department Director Signature:		Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AW WTP Process Upgrades

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 09-NEW-2    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$902,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility    AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. **Complete this form electronically.**
2. **Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
3. **Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AW WTP Process Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project requests funds to upgrade some of the processes at the water treatment plants in all seven villages. Specific upgrades are: installing mixers in the water storage reservoirs, re-configuring Point Hope's reservoir heating system, and installing a by-pass at all heat exchangers.

---

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** AW WTP Process Upgrades  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project request \$901,981.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Engineering 20%		\$ 113,886
<b>Construction / Acquisition</b> (anticipated costs)	Equipment & installation		\$ 569,432
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 68,331
<b>Contingency</b> (if not included in other line items)	@20%		\$ 150,330
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 901,981
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

This project could be phased.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project could be phased.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Project costs will be \$119,971 per village, with Point Hope's costs at \$182,157.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase 1 funding for Atqasuk, Point Hope and Wainwright at \$422,099; Phase 2 for Anaktuvuk Pass, Kaktovik Nuiqsut and Point Lay at \$479,882.

**PROJECT NAME:** AW WTP Process Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Mixers will improve heating efficiencies in the water reservoirs, help keep chlorine levels evenly distributed and improve removal of deleterious contaminants. Piping re-configuration will install a bypass to the heat exchangers to allow work on the equipment without shutting down the distribution loops. Point Hope's heating loop pump re-configuration will place the heating loop circulator pumps in a more optimal operating position; this will eliminate air-locking of pumps that interrupt the reservoir heating cycles. This affects reservoirs T-3 and T-4.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will not expand facilities.

C. Indicate if this is a reoccurring upgrade or repair.

This is a one time project.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Elevated Total Trihalomethanes (TTHMs) have been measured during water transfers between reservoirs. Water mixers will volatilize (help remove) the TTHMs from the water.

**PROJECT NAME:** AW WTP Process Upgrades

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Sewage Tanks

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~60-107~~ 10-107 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,640,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Sewage Tanks

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

In the village of Point Lay, the buried sewer collection system is failing but becoming cost prohibitive to repair. Sewer holding tanks will provide basic sanitation services to the community. This project will install approximately 20 sewer holding tanks on an emergency basis and should complete the remaining residential services.

The project is Areawide and can address replacement of an existing sewer service where it has failed with a new holding tank.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide Sewage Tanks  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This project request is for \$2,640,000 to install 20 sewer holding tanks on an emergency basis due to the failing sewer collection system.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Engineering design 8%		\$ 160,000
<b>Construction / Acquisition</b> (anticipated costs)	Sewer Holding Tank acquisition and installation	From 1st phase installation costs	\$ 2,000,000
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 200,000
<b>Contingency</b> (if not included in other line items)	Contingency 10%		\$ 200,000
<b>Other Costs</b> (with description)	4% Escalation for 2020		\$ 80,000
<b>TOTAL</b>			\$ 2,640,000
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 60-107 Areawide Sewage Tanks

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Sewage Tanks

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The failing sewer mains and laterals in Point Lay pose a threat to the health and safety of the community. Non-functioning sewer lines cause sewage backups into homes with increased health risks and failed systems force residents to go back to honey bucket use. Repair of the buried pipe is becoming cost prohibitive. Providing sewer holding tanks for each home is a less expensive alternative while still providing basic sanitation services.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will eliminate operating and maintenance costs of the existing piped sewer system but increase the truck haul system costs.

C. Indicate if this is a reoccurring upgrade or repair.

---

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Severe subsidence in portions of the village is causing failure of the piped sewer system.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

From the 18-041 Areawide Alternatives to Direct Bury Water & Sewer PAR: A long term solution is needed to stabilize the water and sewer system to account for village conditions.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

From the 18-041 Areawide Alternatives to Direct Bury Water & Sewer PAR: The water and wastewater systems in the NSB have exhibited reliability issues, most notably on the gravity collection systems.

**PROJECT NAME:** Areawide Sewage Tanks

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Though it will increase operating costs for sewage tank hauling, this project will eliminate costly emergency repairs to the buried sewer collection system.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: 18-041 Areawide Alternatives to Direct Bury Water & Sewer

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water and Sewer Division Manager		
Signature:		Date:	
Department Director Name: Scott Danner, Public Works Director			
Department Director Signature:		Date:	3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Outfall Line Repair

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~60-118~~ 10-118 TYPE: Upfund  
DATE SUBMITTED: 3/4/2020 AMOUNT REQUESTED: \$1,247,000  
REQUESTING ENTITY: Public Works-Water & Sewer Utility AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works-Water & Sewer Utility

**2. PROJECT NAME:** Areawide Outfall Line Repair

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This Project Upfund Request is to add the Kaktovik treated effluent outfall and Nuiqsut treated effluent outfall piping to the existing project code for repair.

Kaktovik - The Treated Effluent Outfall is located on a bluff overlooking the Kaktovik Lagoon. The bluff has eroded since installation. The piles closest to the water are not supported in the bluff as designed but sit in the lagoon now. The pile have also experienced ice damage that carried through the structure, damaging pipe supports on the overhead beam. Metal is twisted and it appears that a bolt joint has partially sheared apart.

Nuiqsut - a portion of the outfall line has collapsed, requiring repair to the line. Several support posts and the end support structure need to be replaced to prevent another collapse.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide Outfall Line Repair  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project Upfund request is for \$1,246,400 to design and complete the construction of the Kaktovik and Nuiqsut Outfalls repairs.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design (15%)	Estimate	\$ 120,000
<b>Construction / Acquisition</b> (anticipated costs)		Estimate	\$ 800,000
<b>Administration</b> (NSB project management)	Admin @10%		\$ 92,000
<b>Contingency</b> (if not included in other line items)	20%		\$ 202,400
<b>Other Costs</b> (with description)	4% Escalation for 2020		\$ 32,000
<b>TOTAL</b>			\$ 1,246,400
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 60-118 Areawide Outfall Repair

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Kaktovik: \$984,446      Nuiqsut: \$261,954

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Outfall Line Repair

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

The Kaktovik outfall has been damaged by ice loads. The structure is visibly damaged with warped and sheared steel members. The Nuiqsut outfall piping has separated at joints and the heat trace is not working as designed. The condition will worsen as the pipe supports continue to settle into the tundra.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

A fully functioning outfall line is a necessary component of the wastewater treatment process. Freeze ups require maintenance time to thaw the line and ensure its continuous functioning.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will not expand facility.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

N/A

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

However, review by a structural engineer will deem this structure failed and in need of replacement.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Areawide Outfall Line Repair  
**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

Replacing the discharge platform, replacing the damaged pipe, and restoring the heat trace will prevent maintenance needed to keep the outfalls open.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

Photos

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager		
Signature:		Date:	
Department Director Name: Scott Danner, Public Works Director			
Department Director Signature:		Date:	3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AW Heat Trace Panel Upgrades

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~60-119~~ 10-119 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,486,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AW Heat Trace Panel Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Heat trace service panels and service control panels are reaching the end of their service life in the villages. These panels and associated connections will need to be replaced. Because of increasingly deteriorating condition of the electrical service panels in Kaktovik, 113 panels for all homes in Kaktovik need to be replaced.

Existing panels are severely corroded, have holes, or do not latch. All of these create an unsafe condition for operators and residents alike. Internal components are also corroded which reduces the reliability of the service.

In 2016 and 2018, funds were authorized for homes in Point Hope. A new design is being used that uses corrosion resistance materials and houses parts behind clear covers to protect them from the elements.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** AW Heat Trace Panel Upgrades  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This request is for \$2,486,090 for complete Kaktovik.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	A&E Design Services @8%		\$ 144,640
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Electrical contractor	\$ 1,808,000
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 195,264
<b>Contingency</b> (if not included in other line items)	15%		\$ 322,186
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 2,486,090
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 60-119 Point Hope Heat Trace Panel Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project might be phased over 2 years, but service interruptions might occur with greater frequency prior to the second year's work commencing.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

This is a project request to begin repairs and replacement of service control panels. Kaktovik is the current priority now that PHO is complete. Other villages to follow in future years.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

The project could be split into two years year 1 - \$1,243,045 and year 2 - \$1,243,045

**PROJECT NAME:** AW Heat Trace Panel Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Boxes have reached their useful life expectancy in the existing environment. Corroded panels potentially expose residents and North Slope personnel to 110V and 230V wiring that is unprotected. In addition, the panels are corroded shut and require hammering to open, which further damages the panels.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

No expansion. Operating and maintenance costs will be reduced due to reduced maintenance and service interruptions.

C. Indicate if this is a reoccurring upgrade or repair.

---

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** AW Heat Trace Panel Upgrades

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: Similar to Point Hope Heat Trace Panel Upgrades; October, 2017

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name: Scott K. Danner, Public Works Director	
Department Director Signature: 	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** BUS Pump Station 5 Upgrades

**LOCATION:** Barrow

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~60-120~~ 10-120 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$126,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** BUS Pump Station 5 Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is to upgrade Pump Station 5 on Simmons Hill to increase the capacity of the pump station as well as upgrading the wet well. The Top of the World hotel has increased the wastewater demand of Pump Station 5 significantly. The pump station is considered at capacity by the operators, BUECI.

The wet well in the pump station is deteriorating and severely corroded. Due to the increased load from the hotel, the wet well can not be taken out of service for inspected or maintenance as previously performed by BUECI.

The proposed scope is replacement of Pump Station 5 with a facility similar to Pump Station 9 on Sakeagak Street.

Upsizing the lift station will allow for recent developments on Paneatak Road to eliminate the planned septic tanks in favor of buried collection piping.

**4. PROJECT LOCATION:**

Barrow

**PROJECT NAME:** BUS Pump Station 5 Upgrades  
**LOCATION:** Barrow

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Phase 1 - \$303,000 Design Phase funded in 2017.  
 Phase 2 - \$2,227,000 Construction Phase funded in 2019.  
 This request is for the \$126,009? This request for construction funding.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	A&E Design Services @8%		\$ 327,240
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Based on Pump Station 9 costs	\$ 1,490,129
<b>Administration</b> (NSB project management)	Contingency 25%		\$ 149,013
<b>Contingency</b> (if not included in other line items)	CIPM Administration 10%		\$ 491,595
<b>Other Costs</b> (with description)	5% Escalation for 2020		\$ 74,506
<b>TOTAL</b>			\$ 2,656,009
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-142 BUS New W/S Service Connections

**A. If this is a new request, indicate below whether this project could be phased and over how many years.**

This project is phased as design funds have already been posted to 60-120. The construction funding estimate is based on the BUS Pump Station 9 construction estimate.

**B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.**

**C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.**

Phase 2: \$2,353,009 with 2,227,000 funded. Remaining funds needed \$126,009

**PROJECT NAME:** BUS Pump Station 5 Upgrades

**LOCATION:** Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Funding this project will perform much needed upgrades to the function Pump Station 5. Upgrading the lift station will size the facility for the current and future demands as well as use materials that are less maintenance intensive.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Power consumption may increase due to the potential for increased pump motor sizing. Maintenance on the facility would be reduced however.

C. Indicate if this is a reoccurring upgrade or repair.

This is a one time funding request.

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** BUS Pump Station 5 Upgrades

**LOCATION:** Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

No risk assessment has been conducted, however this facility could be considered vital to the BUS function. It services a small area with a high occupancy density due to the hotel and two restaurants in the area. Impacts to the Pump Station 5 function will have negative impacts to the Utqiagvik economy.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The facility improvements are expected to be near net zero for operating budget impacts.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

--

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

--

**15. REQUESTOR INFORMATION:**

Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager
Signature: _____ Date: _____
Department Director Name: Scott Danner, Public Works Director
Department Director Signature:  Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AW WWTP Upgrades

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~60-122~~ 10-122 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$954,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** AW WWTP Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This request is to upgrade process, process control and process monitoring systems Areawide. Point Hope, Wainwright and Atqasuk plants are at or near their hydraulic limit. Point Hope and Wainwright have received NOV's and Atqasuk cannot add new service connections without a wastewater plant upgrade. All plants have obsolete control and monitoring systems that are past their useful life and need replacement. All plants would benefit from standardized process upgrades to improve compliance and effluent safety.

Improvements have been recommended for:

- Equalization upgrades - providing automatic controls for effective flow equalization.
- Fixed or moving bioreactor media upgrades to increase biomass and BOD reduction (all plants except Kaktovik)
- Secondary Clarifier upgrades and disc filter pilot test - upgrade the scum removal, wasting, and recycle equipment and controls to reduce BOD and TSS violations.
- Disc Filter Pilot Test - install a disc filter for effluent solids removal to reduce risk of TSS violations.
- Disinfection upgrades - install in-line ultraviolet (UV) disinfection and controls to reduce fecal coliform violations and chemical handling requirements. (all plants)
- WAS/RAS metting -add pumps and meters on the WAS/RAS line to improcess process control.
- Replace alamar/monitoring systems with ethernet-compatible & programmable PLC's (all plants)

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** AW WWTP Upgrades  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This request is for Atqasuk funding to complete at \$953,700

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design, Permitting & CA		\$ 144,500
<b>Construction / Acquisition</b> (anticipated costs)	Recommended Upgrades		\$ 578,000
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 72,250
<b>Contingency</b> (if not included in other line items)	20%		\$ 158,950
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 953,700
<b>TOTAL PROJECT COST</b> (if different)			\$ 7,898,692

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 60-122 AR WWTP Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

PHO (funded) \$1,266,000, ATQ \$953,700, AIN \$1,475,116, NUI \$1,569,943, PIZ \$1,026,077

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

2020 ATQ \$953,700, 2021 AIN \$1,475,116, 2022 NUI \$1,569,943, 2023 PIZ \$1,026,077

**PROJECT NAME:** AW WWTP Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Upgrades to the treatment plant processes will reduce discharge permit violations and add in place capacity without plant expansion.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The project will not expand facilities, but additional equipment/process may increase O&M

C. Indicate if this is a reoccurring upgrade or repair.

This is a reoccurring project until all sites are upgraded.

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

ADEC Discharge Permit violations.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** AW WWTP Upgrades

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: 2015-04 Point Hope Wastewater Treatment Plant Expansion

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name: Scott K. Danner, Public Works Director	
Department Director Signature:	Date:
	3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Sewer Systems Major Repairs Project

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~60-123~~ 60-123-110-123 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,500,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Sewer Systems Major Repairs Project

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is an up-fund request for the Areawide Sewer Systems Major Repairs Project. No specific amount is budgeted per village, rather an estimated amount of money is requested to implement proactive upgrades and improvements, and upgrades required to correct system failures.

This project funds the replacement of pipe, installation of trench plugs and insulation, the purchase of gravel, and the replacement of system components.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide Sewer Systems Major Repairs Project  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This request is for \$1,500,000

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Engineering Support, 10%		\$ 135,000
<b>Construction / Acquisition</b> (anticipated costs)			\$ 1,215,000
<b>Administration</b> (NSB project management)	CIPM Administration, 10%		\$ 150,000
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,500,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 60-106 Areawide Sewer Systems Major Repairs Project

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

AKP \$83,000, ATQ \$83,000, UTQ \$750,000 , KAK \$83,000, PHO \$167,000, PIZ \$167,000, AIN \$167,000

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Sewer Systems Major Repairs Project

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project funds upgrades to components experiencing unexpected failure and which are not on the Repair and Replacement Schedule.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

A severe threat to public health and the environment exists when sewage components fail, causing backups into homes and spills onto the ground. Below-ground sewer breaks and leaks indicate significant changes that have taken place in the buried utility system. Failure to repair leaks destabilizes the supporting permafrost, further compromising the sewage system. Proactive upgrades and improvements to the system will create more stable and reliable sewer utilities in the villages, reducing the need for costly emergency repairs.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This is a recurring up-fund request.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Areawide Sewer Systems Major Repairs Project  
**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include written verification)  
Explanation, if necessary:

The project covers proactive upgrades and improvements that impact the public utility's ability to provide services. Without the upfund, the NSB would incur greater costs in labor, equipment, and energy resources. Proactively implementing upgrades to the system will significantly reduce the costs spent on emergency repairs in the future.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott K. Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Barrow Utilidor System Repairs & Upgrades

**LOCATION:** Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~60-115~~ 10-125 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,154,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Barrow Utilidor System Repairs & Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project was created to fund the cost of non-routine major repairs and upgrades to the existing Barrow Utilidor System (BUS). Major repairs commonly consist of upgrading water mains and laterals in locations a leak has occurred as well as:

- New Inline Heat trace ~3,000 LF
- Replacement Rodder/Vactor truck
- Transition Building Upgrades
- Bus Diesel Tank Upgrade
- Pump Station 1 and 2 Upgrades

These costs are a recurring aspect of maintaining the useful life of the BUS System.

---

**4. PROJECT LOCATION:**

Utqiagvik

**PROJECT NAME:** Barrow Utilidor System Repairs & Upgrades  
**LOCATION:** Utqiagvik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project Request Amount: \$1,153,680  
 Inline Heat trace \$24,000 Replacement Rodder/Vactor \$500,000 Transition Building \$350,000  
 BUS Diesel Tank \$180,000 NSB Admin \$105,400 Contingency \$231,880

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)		Vendor quotes, engineer estimates, historic costs	\$ 1,054,000
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 105,400
<b>Contingency</b> (if not included in other line items)	20%		\$ 231,880
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,391,280
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 59-121 Barrow Utilidor System Repairs & Upgrades

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Barrow Utilidor System Repairs & Upgrades

**LOCATION:** Utqiagvik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

In order to maintain existing level of service to all BUS customers, ongoing major repairs and upgrades are required. This is necessary to maintain the large capital investment the Borough has made in building and expanding the BUS system. Replacing large motors, pumps and other equipment on a regular preventative maintenance schedule reduces the cost and time to the operators, versus making the same type of repairs on an emergency basis.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

---

C. Indicate if this is a reoccurring upgrade or repair.

This is a recurring upgrade to maintain the Barrow Utilidor System.

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Barrow Utilidor System Repairs & Upgrades

**LOCATION:** Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Performing preventative maintenance on the BUS equipment and structures will reduce emergency funding requests.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager	
Signature:		Date:
Department Director Name:	Scott K. Danner, Public Works Director	
Department Director Signature:		Date: 3.2.20

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Water & Sewer Equipment

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~10-126~~ 10-126 TYPE: Upfund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$400,000

REQUESTING ENTITY: Public Works Water & Sewer Utility

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Water & Sewer Equipment

**3. PROJECT DESCRIPTION:**

- **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

This project will provide for equipment to maintain the Village Water & Sewer Systems. This includes areawide vacuum station pumps, wastewater plant lift station pumps, service barrel pumps and major components, raw water pump gensets, microfilter skid major components, water treatment process cleaning filters, and treatment plant process air compressors.

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay, and Wainwright.

**PROJECT NAME:** Areawide Water & Sewer Equipment  
**LOCATION:** Areawide

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

This request \$400,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?  
 No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project will be used to replace equipment that fails in advance of the NSB Repair and Replacement Schedule.

**PROJECT NAME:** Areawide Water & Sewer Equipment

**LOCATION:** Areawide

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The equipment is needed for the safe operation and maintenance of the Village Water & Sewer System. This project will provide for major replacement components, and equipment required to maintain the W/S systems area-wide. Updated equipment will result in reduced O & M costs.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will not expand facilities. New replacement equipment should reduce O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Areawide Water & Sewer Equipment  
**LOCATION:** Areawide

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Brett Goodwin, Water & Sewer Division Manager	
Signature:	Date:
Department Director Name: Scott Danner, Public Works Director	
Department Director Signature: 	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Water & Sewer Connections

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 10-NEW-1    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$338,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility    AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Water & Sewer Connections

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project request is for the installation of new water and sewer service connections. This project would fund piping connections to homes in villages that already have modern sanitation facilities in home. This project would also be used to put homes on piped system that are currently served by holding tanks.

This request seeks funding for Point Hope, which has 14 residences, the Senior Center and New NSB Itinerate Camp that are requesting service.

Projects 60-122 will be needed prior to moving forward with new connections in Point Hope.

**4. PROJECT LOCATION:**

Areawide

---

**PROJECT NAME:** Areawide Water & Sewer Connections  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This Request is for Point Hope  
 Design \$267,120  
 NSB Admin \$26,7120 Contingency \$44,074  
 Total this request \$337,906

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design & Construction Administration	12% of Construction estimate	\$ 267,120
<b>Construction / Acquisition</b> (anticipated costs)	CNST/PM/Profit/OH	Based on historic costs	\$ 2,226,000
<b>Administration</b> (NSB project management)	CIPM Admin @ 10%	Historical	\$ 249,312
<b>Contingency</b> (if not included in other line items)	15% of Construction	Engineer estimate	\$ 411,365
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 3,153,797
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**  
 Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:  
 A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project can be phased over two or three years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

This is the start of an areawide request. Future costs will be dependant upon new home construction areawide and applications for service.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

PHO Phz 1 337,906, Phz 2 1,726,725, Phz 3 1,089,165

**PROJECT NAME:** Areawide Water & Sewer Connections

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project is for the design and construction of new infrastructure that will be added to the repair and replacement schedule upon completion of construction.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Adding services to the Point Hope water and sewer system will meet growth needs and improve basic quality of health for the community of Point Hope. It will also reduce the reliance on the percolation pit at the landfill and reduce tank truck operations costs.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Upgrades include installing 15 new water and sewer service connections. The plant expansion and new connections will increase both operating and maintenance costs, but will reduce the costs of truck haul service.

C. Indicate if this is a reoccurring upgrade or repair.

Yes, this is an Areawide request that is reoccurring as new homes are added to the service request list.

D. Detail outside funds being leveraged, if applicable.

None.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

However, this project does improve sanitation for households. Piped water service is documented as directly improving human health.

**PROJECT NAME:** Areawide Water & Sewer Connections

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Seepex Pumps & RAS metering

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 10-NEW-2    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$1,000,000  
REQUESTING ENTITY: Public Work Water & Sewer    AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Work Water & Sewer

**2. PROJECT NAME:** Areawide Seepex Pumps & RAS metering

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

to improve the quality of the areawide wastewater treatment process, it is necessary to up-size the seepex pumps and RAS pump metering system. The village of Kaktovik has already shown significant plant performance improvement. The plan of action for the remaining 6 villages would mirror the steps taken in Kaktovik.

**4. PROJECT LOCATION:**

Areawide

---

**PROJECT NAME:** Areawide Seepex Pumps & RAS metering  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)			\$
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Seepex Pumps & RAS metering

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project will improve the quality of the effluent from each of the remaining 6 village wastewater plants

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

N/A

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Areawide Seepex Pumps & RAS metering

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

None

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name:	Scott K. Danner, Public Works Director
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide lift Station Control Upgrades

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 10-NEW-3    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$1,000,000  
REQUESTING ENTITY: Public Work Water & Sewer    AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Work Water & Sewer

**2. PROJECT NAME:** Areawide lift Station Control Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

In the villages of Wainwright and Point Lay, three lift station junction boxes are frequently submerged in water. This project will remove potential hazards associated with electrical components being submerged 15 feet below ground when maintenance is needed to restore/repair lift station pumps. The controls should be lifted above ground.

---

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide lift Station Control Upgrades

**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Estimate to be prepared.

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)			\$
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide lift Station Control Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

---

To reduce chance of lift station pump failures due to electrical components being submerged. In addition this will improve accessibility for maintenance on lift station pumps.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

---

C. Indicate if this is a reoccurring upgrade or repair.

---

This is not a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

---

N/A

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Areawide lift Station Control Upgrades  
**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

None

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager	
Signature:		Date:
Department Director Name:	Scott K. Danner, Public Works Director	
Department Director Signature:		Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Wainwright Wastewater Treatment Plant Process Upgrades

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 10-NEW-4    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$1,745,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility    AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Wainwright Wastewater Treatment Plant Process Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

These project funds will be used to increase the Wainwright Wastewater Treatment Plant's permitted capacity to accommodate wastewater flows for the projected growth of the village for the next 20 years. This includes the addition of new service connections for existing homes and facilities.

**4. PROJECT LOCATION:**

Wainwright

**PROJECT NAME:** Wainwright Wastewater Treatment Plant Process Upgrades  
**LOCATION:** Wainwright

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project Request: \$1,744,859

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	A/E services	10% of construction	\$ 120,335
<b>Construction / Acquisition</b> (anticipated costs)	IFAS installation	scaled from KAK WWTP upgrades	\$ 1,203,351
<b>Administration</b> (NSB project management)	CIPM	10% of construction	\$ 120,335
<b>Contingency</b> (if not included in other line items)	CA	20% of construction	\$ 240,670
<b>Other Costs</b> (with description)			\$ 60,168
<b>TOTAL</b>			\$ 1,744,859
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This project should not be phased.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Wainwright Wastewater Treatment Plant Process Upgrades

**LOCATION:** Wainwright

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

The project is in response to village growth and increased per capita utility usage. It is not in response to facility aging.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The Wainwright Wastewater Treatment Plant has a permitted effluent discharge capacity of 28,000 gpd (gallons per day). The plant's average daily discharge volume is equal to 67% of this, and the discharge permit is exceeded about once a month. The addition of roughly 35 new services or an influx of people in response to oil exploration and development may push the average daily discharge beyond its permitted limit.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand the wastewater treatment facility, and it will entail increased operating costs.

C. Indicate if this is a reoccurring upgrade or repair.

Not a recurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Any substantial growth of Wainwright including a temporary surge of people, could overload the wastewater plant, and force it to discharge inadequately treated effluent into the ocean.

**PROJECT NAME:** Wainwright Wastewater Treatment Plant Process Upgrades

**LOCATION:** Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: WWTP Process Upgrades for Wainwright and Kaktovik; April, 2013

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name: Scott K. Danner, Public Works Director	
Department Director Signature:	Date: 3.2.20

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Vacuum Station Pump Upgrades

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 10-NEW-5    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$1,558,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility    AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Areawide Vacuum Station Pump Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will install new energy-efficient, low-maintenance vacuum station pumps in Atqasuk, Kaktovik and Nuiqsut. Point Hope's vacuum pumps were previously funded.

The existing vacuum pumps are maintenance intensive and self-destruct when not properly attended. The pumps generally have had a high failure rate in village and require frequent rebuilds/replacement. There are also two sizes of the existing pumps on slope, causing part inventory difficulties.

The nature of the existing pump design is inefficient as it uses friction to create sealed surfaces. The proposed pump does not use the friction pump design and is approximately 20% more efficient per volume pumped. This means that the pump components do not wear as fast, and less power is consumed. The proposed pump can also be standard across slope, which reduces inventory problems and increases our emergency response capacity.

The proposed project includes plumbing and electrical upgrades to complete the pump installation.

Annual anticipated cost savings per site is up to \$40,000

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Areawide Vacuum Station Pump Upgrades  
**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Project Request - \$1,558,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design/CA	10%	\$ 112,000
<b>Construction / Acquisition</b> (anticipated costs)	Pump/Motor purchases and installation	Engineering Estimate: ATQ (2 pumps); KAK (2 pumps); NUI (4 pumps)	\$ 1,120,000
<b>Administration</b> (NSB project management)	CIPM @10%		\$ 123,000
<b>Contingency</b> (if not included in other line items)	@ 15%		\$ 203,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,558,000
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Atqasuk: \$475,746      Kaktovik: \$475,746      Nuiqsut: \$606,507

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Vacuum Station Pump Upgrades

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

New 'Mink' vacuum pumps are energy-efficient and have no oil, therefore require much less on-going maintenance.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

New 'Mink' vacuum pumps are energy-efficient and have no oil, therefore require much less on-going maintenance.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The pumps will reduce energy consumption and require less maintenance to operate.

C. Indicate if this is a reoccurring upgrade or repair.

This is a reoccurring request until all three sites are upgraded.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Areawide Vacuum Station Pump Upgrades  
**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

New pumps are energy-efficient and low-maintenance. Anticipated annual cost savings per village is \$40,000.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager
Signature:	Date:
Department Director Name: Scott K. Danner, Public Works Director	
Department Director Signature:	Date:
	3-2-20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

**LOCATION:**

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 13-222

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,313,000

REQUESTING ENTITY: Public Works, Power Generation and Distribution

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works, Power Generation and Distribution

**2. PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

- A properly functioning waste heat system will extend power plant equipment life and help to comply with emissions rules. The generators will operate at design temperatures, where long life, reduced maintenance, and greater efficiency (more power out for a given amount of fuel burned) can be expected. These all represent cost savings and push the NSB toward more effective, efficient operations.
- Effective use of Waste Heat can be a source of personal (for the operators and workers), community, and Area Wide pride. Nobody wants to have a dilapidated, corroded, system with insulation falling off and icicles of solidified glycol hanging off of piping and equipment. I know that the school would be extremely thankful for waste heat and a reduced fuel bill.
- Based on my PW experience, time is of the essence to make the generators run more efficiently, provided needed heat to users, and to clearly stay under emissions limits.

**4. PROJECT LOCATION:**

Nuiqsut and Kaktovik

**PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

**LOCATION:**

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$2,312,408

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Nuiqsut WH Design Shortfall (existing contract w/ Umiaq) and required CA services for both BTI/NUI	BTI 95% and NUI Preliminary Estimate by Umiaq - (Existing design contract = \$299,932)	\$ 690,000
<b>Construction / Acquisition</b> (anticipated costs)	BTI Construction \$3,782,040 NUI Construction \$1,239,568	BTI 95% and NUI Preliminary Estimate	\$ 5,021,608
<b>Administration</b> (NSB project management)	BTI \$567,306 NUI \$185,935	Admin cost estimated at 15% of project construction cost	\$ 753,241
<b>Contingency</b> (if not included in other line items)	15% contingency for materials cost escalation (NUI construction 2021) and increasing labor and shipping costs - both BTI/NUI construction and professional services	Historical and best practices for construction estimation	\$ 856,741
<b>Other Costs</b> (with description)	Existing funds in CIP#63622		\$ -5,009,182
<b>TOTAL</b>			\$ 2,312,408
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2019?**  No  Yes

If yes, please identify how much will be needed prior to November 2019 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

**LOCATION:**

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  No  Yes

If No, explain why it should be considered out of sequence:

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

**A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.**

The above-ground insulation is indeed soaked. There is severe corrosion at the washeteria equipment and general lack of control of heat distribution due to lack of control at waste heat load sinks. The controls at the power plant are basically completely dysfunctional and can only be manipulated coarsely manually. One of the circulation pumps was not working when I was on site. These basic problems and more are described in the Preliminary Analysis, so I see that the situation is basically the same as when I last was on site. PLC-based controls are more expensive, but this cost will be saved in once successful season of mitigating heating fuel savings at the school and the endless trips to the field to try to make something that is completely nonfunctional work again. Success in this project will be a huge step forward for the NSB, in operating as efficiently as possible and will be a large morale booster, particularly at the Power Plant and at the School. I spent some time with the School Maintenance lead regarding this subject.

**B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.**

**C. Indicate if this is a reoccurring upgrade or repair.**

**D. Detail outside funds being leveraged, if applicable.**

**11. Please respond to the following questions:**

**A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** CIP 63-222 Area Wide Waste Heat Recovery

**LOCATION:**

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	
Signature:	Date:
Department Director Name:	
Department Director Signature: 	Date: 3.3.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation

**LOCATION:** ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 13-251

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,255,000

REQUESTING ENTITY: Public Works / Power Generation & Distribution

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works / Power Generation & Distribution

**2. PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is a recurring area wide project.

Funds requested will be used to procure and deliver major durable power grid components to include transformers, cut-outs, fuses, switch gear, meter bases, power poles, pole cross arms, and associated hardware.

We received a 2019-10 G.O. Bond upfund of \$633,000. A large portion of these funds will be used for the Wainwright conversion from 7200 volts to 4160 volt requiring that transformers be replaced. This is an effort to standardize as all of the other power grids area wide are 4160 volts.

As in the past, the major component in need of replacement this funding cycle are transformers. This upfund will provide for the replacement of 70 transformers for Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsut, Point Hope, Wainwright and Point Lay. This request will also provide for replacement of other components listed on an as needed, as required, basis. Many of the Borough's 3 phase services on our facilities in the villages that provide essential services have reached the end of their useful life and need to be replaced. This request includes an estimate to replace these services.

Funds in this project are also used on an emergency basis, therefore, a balance should always be maintained as a safety net. Funding this request will assist Public Works in the goal of providing for the reliable distribution of electrical power to our residents and facilities of the NSB with minimal downtime.

**4. PROJECT LOCATION:**

Anaktuvuk Pass, Atqasuk, Barrow, Kaktovik, Nuiqsuk, Point Hope, Wainwright & Point Lay

**PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation  
**LOCATION:** ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$504,000: 70 transformers area wide at \$7,200 each.  
 \$300,000: For replacement of Borough 3 phase services area wide that reached the end of their useful life.  
 \$200,000: For other power grid components as needed, as required.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)	Transformers: \$504,000 NSB Facilities 3 Phase Service Replacement \$300,000 Other Components: \$200,000 (Includes purchase and shipping)		\$ 1,004,000
<b>Administration</b> (NSB project management)	10% Direct Cost Administration		\$ 100,400
<b>Contingency</b> (if not included in other line items)	15% Contingency for material and shipping escalation as well as unknowns.		\$ 150,600
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,255,000
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: CIP 63-251

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

This is not a phased project.

**PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation

**LOCATION:** ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Present conditions require corrective action. The Design needs to be escalated to advance delivery prior to construction funding.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Electrical components in our coastal villages deteriorate extremely fast due to the extremely corrosive salt water environment which if not replaced, eventually cause as outage. Often these outages occur under high wind and storm conditions making mobilization to restore an outage hazardous and dangerous. If we are able replace these deteriorating components before they fail, outages are eliminated. Out non-coastal villages see minimal deterioration, however, the age of some equipment has surpassed it's useful life which can lead to unforeseen problems and outages.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

Reoccurring Upgrade

D. Detail outside funds being leveraged, if applicable.

No outside funds are being leveraged

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** CIP 63-251 Areawide Power Grid Preservation

**LOCATION:** ATQ, KAK, NUI, AKP, PHO, AIN, PIZ, BRW

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Upgrading and replacement of aging and deteriorating electrical components with new more durable and reliable components, results in less outages that require costly mobilization efforts by our line crew to restore power.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristopher Kolodziej, Power System Manager
Signature:	Date:
Department Director Name:	
Department Director Signature: 	Date: 3.2.20

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** CIP 63-258 Village Power Distribution Grid Upgrades

**LOCATION:** AIN, AKP,ATQ,BTI,NUI, PIZ, BRW,PHO

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 13-258

TYPE:UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$8,875,000 with \$1,200,000 through

REQUESTING ENTITY: Public Works / Power Generation & Distribution

AMOUNT RECOMMENDED:

LOI

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works / Power Generation & Distribution

**2. PROJECT NAME:** CIP 63-258 Village Power Distribution Grid Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Kaktovik - This has bid and will be under construction beginning Summer 2020 lasting through Summer 2121. Cost overruns on completing Nuiqsut and higher than anticipated estimated construction costs for Kaktovik have created a shortage of funds to complete this project. The bid for Kaktovik was structured with a base bid and six (6) additive/ deductive Options. Additional funds are requested to bring the unfunded Options into the Construction

Point Lay - Funds are requested to solicit for design services and then to competitively bid a construction contract.

Atqasuk - Funds are requested to solicit for design services.

The Power Distribution Grids in these locations are deteriorating and aging prematurely as a result of the harsh arctic environment that subjects these systems to high wind and ice loads. The coastal Villages have the added element of an extremely corrosive atmosphere that escalates the aging process. This results in numerous outages as a result of conductor and/or connector failures, breaking cross arms, insulator failures, jumpers failures, etc. These outages not only inconvenience our customers but put our facilities at risk of freezing and jeopardize the safety of the residents and the linemen that must restore power once it is lost. Approval of this request will help address these problems areawide and will help ensure the safety of our residents, linemen and provide more reliable delivery of power to our customers.

**4. PROJECT LOCATION:**

Areawide: Nuiqsut, Kaktovik, Atqasuk, Wainwright, Point Hope, Point Lay, Anaktuvuk Pass, Barrow

**PROJECT NAME:** CIP 63-258 Village Power Distribution Grid Upgrades

**LOCATION:** AIN, AKP,ATQ,BTI,NUI, PIZ, BRW,PHO

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$ 700,000: Atqasuk and Point Lay Design & Construction Administration Services  
 \$1,200,000: Kaktovik Construction Shortfall (\$5,200,000 Con. Est. - \$4,000,000 Current Budget)  
 \$5,200,000: Point Lay Construction  
 \$1,065,000: Direct Project Management Costs & Contingency (\$710,000 -10% Direct Costs / \$1,065,000 - 15% Contingency)

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design and Construction Administration for Atqasuk and Point Lay (\$350,000 each = \$700,000)	Estimate based on mid-range of Design & CA costs for Nuiqsut (PDC - \$400,000) and Kaktovik (EEE - \$300,000)	\$ 700,000
<b>Construction / Acquisition</b> (anticipated costs)	Kaktovik Construction Shortfall: \$1,200,000 Point Lay Construction: \$5,200,000	Kaktovik; Construction Estimate/Budget Difference Point Lay Construction based on Kaktovik	\$ 6,400,000
<b>Administration</b> (NSB project management)	10% total project direct costs		\$ 710,000
<b>Contingency</b> (if not included in other line items)	15% contingency due to increased material costs, unknown bidder interest and competition, and unknowns.		\$ 1,065,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 8,875,000
<b>TOTAL PROJECT COST (if different)</b>			\$ -

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

\$1,200,000 Estimated shortfall for Kaktovik construction as this a current project and we want to award the portions that we were unable to due to available funding.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: CIP 63-258

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Atqasuk: \$350,000 (Design and CA Services) Kaktovik: \$1,200,000 (Construction Shortfall)  
 Point Lay: \$5,550,000 (Design and CA Services, and Construction)

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** CIP 63-258 Village Power Distribution Grid Upgrades

**LOCATION:** AIN, AKP,ATQ,BTI,NUI, PIZ, BRW,PHO

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project is ongoing and upgrades are prioritized based on existing condition of the condition of the power grid in each Village. This project has also been used for emergency repairs. We have been upgrading, with contracted construction, one village at a time which typically lasts two (2) construction seasons. Point Hope was completed in 2016. Nuiqsut was completed in 2019. Kaktovik is currently under construction. Point Lay is the next complete power grid upgrade planned.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

**A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.**

The current Village Power Distribution Grids are aging and deteriorating and in need of upgrading and replacement. Their current condition results in numerous outages as a result of conductor or connector failures, breaking cross arms, insulator failures, jumper failures, etc. Outages inconvenience Village residents, put homes and Borough facilities at risk of freeze up, and jeopardize the safety of Village residents and the lineman responding to power outages. Project funds are also used for emergencies when catastrophic failures power system failures occur.

**B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.**

This project will upgrade and replace existing aging and deteriorating power distribution grids therefore decreasing operating and maintenance costs.

**C. Indicate if this is a reoccurring upgrade or repair.**

This is a non-reoccurring upgrade and the improved Village Power Distribution Grids will have an estimated 20 year life.

**D. Detail outside funds being leveraged, if applicable.**

No outside funds are being leveraged

**11. Please respond to the following questions:**

**A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?**  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** CIP 63-258 Village Power Distribution Grid Upgrades

**LOCATION:** AIN, AKP,ATQ,BTI,NUI, PIZ, BRW,PHO

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Power grid upgrades and replacements will reduce the number of emergency call-outs, air charters, and Search & Rescue air assistance required to to downed lines and switchgear failures.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristopher Kolodziej, Power System Manager
Signature:	Date:
Department Director Name:	
Department Director Signature:	Date:

*(Handwritten signature and date 3.2.20 are present in the original image)*

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)

**LOCATION:** Area wide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 13-265

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$200,000

REQUESTING ENTITY: Public Works, Power Generation and Distribution

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works, Power Generation and Distribution

**2. PROJECT NAME:** CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This is a re-occurring project

The purpose of this project is to provide "smart", or advanced electronic revenue meters and meter communication systems area wide for the villages

The requested funding in this request would design, purchase, deliver and install advanced electronic metering systems and metering communication support

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)

**LOCATION:** Area wide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$200,000

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$ 150,000
<b>Administration</b> (NSB project management)	10%		\$ 20,000
<b>Contingency</b> (if not included in other line items)	15%		\$ 30,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 200,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: CIP 63-265

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)

**LOCATION:** Area wide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Provide automated, remote meter reading capability to reduce errors in meter reading. More closely monitor billing meters, remotely query disruptions of power to services and allow more efficient response to power outages and provide higher correlation between generated vs. billed energy in Alaska AEA reporting.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Will not expand facilities or services

C. Indicate if this is a reoccurring upgrade or repair.

This is a reoccurring project

D. Detail outside funds being leveraged, if applicable.

No outside funds are being leveraged

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** CIP 63-265 Area Wide Electrical Revenue Metering (smart metering)  
**LOCATION:** Area wide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

With the implementation of a smart meter system, accuracy in reads and billing are expected to provide a consistent idea of the cost of power.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristopher Kolodziej, Power System Manager
Signature:	Date:
Department Director Name:	
Department Director Signature:	Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** CIP 63-278 Anaktuvuk Pass Power Plant Upgrades

**LOCATION:** Anaktuvuk Pass, AK

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 13-278

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$8,000,000

REQUESTING ENTITY: Public Works, Power Generation and Distribution

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works, Power Generation and Distribution

**2. PROJECT NAME:** CIP 63-278 Anaktuvuk Pass Power Plant Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Upgrade automated controls, cooling and exhausts system. replace the direct digital control(DDC) system, with programmable logic control (PLC) system and human machine interface (HMI) panels for remote control and monitoring. Install new motor control center (MCC). Facility expansion required to accommodate new cooling system to maximize efficiencies and decrease emissions. Other equipment upgrades and priorities to be established by Public work's as the work progresses

**4. PROJECT LOCATION:**

Anaktuvuk Pass, Alaska

**PROJECT NAME:** CIP 63-278 Anaktuvuk Pass Power Plant Upgrades  
**LOCATION:** Anaktuvuk Pass, AK

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$8,000,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)		65% Cost Estimate	\$ 7,350,000
<b>Construction / Acquisition</b> (anticipated costs)			\$ 7,350,000
<b>Administration</b> (NSB project management)			\$ 350,000
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			<b>\$ 8,00,000</b>
<b>TOTAL PROJECT COST (if different)</b>			<b>\$</b>

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: CIP 63-278

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** CIP 63-278 Anaktuvuk Pass Power Plant Upgrades

**LOCATION:** Anaktuvuk Pass, AK

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The existing equipment scheduled for replacement has surpassed its useful life expectancy and is not functioning properly causing multiple maintenance repairs which could potentially cause power outages to the village.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand the existing fan room to provide a larger area for the new radiators to run more efficiently while providing better maintenance access around the units.

C. Indicate if this is a reoccurring upgrade or repair.

---

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** CIP 63-278 Anaktuvuk Pass Power Plant Upgrades

**LOCATION:** Anaktuvuk Pass, AK

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Reduce fuel costs. More energy efficient equipment is being provided which will generate a cost savings to the Borough's operating budget, and lower the NSB's maintenance costs as fewer service calls will be required.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristopher Kolodziej, Power System Manager
Signature:	Date:
Department Director Name:	
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Areawide Power Generation Upgrade 13-279

**LOCATION:** Areawide

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 13-279

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,500,000

REQUESTING ENTITY: Public Works / Power Generation & Distribution

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works / Power Generation & Distribution

**2. PROJECT NAME:** Areawide Power Generation Upgrade 13-279

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project funds for major overhaul of generator engines and associated equipment, major upgrades and reconditioning of power plants in villages. Completing timely engine overhauls is critical to providing reliable electrical generation.

This Project will also funds small repairs of generators, replacement of generators parts & switch gear.

This Project will also fund replacement parts for NSB Facilities Emergency generators areawide.

**4. PROJECT LOCATION:**

Areawide

---

**PROJECT NAME:** Areawide Power Generation Upgrade 13-279

**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$1,500,000.00

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)	Engine overhaul contract, misc material purchases	Historical	\$ 1,200,000.00
<b>Administration</b> (NSB project management)	10%		\$ 150,000.00
<b>Contingency</b> (if not included in other line items)	10%		\$ 150,000.00
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 1,500,000.00
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 13-279

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

\$214,285.71(NUI)\$214,285.71(ATQ)\$214,285.71(AIN)\$214,285.71(AKP)\$214,285.71(KAK)\$214,285.71(PIZ)\$214,285.71(PHO)

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Areawide Power Generation Upgrade 13-279

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This project provides funds for major Alaska Dept. of Environmental Conservation (ADEC) required overhauls on generator engines and other necessary upgrades to power plants areawide. Completing timely engine overhauls is critical to providing reliable electrical generation. Any deviation from ADEC granted permits and/or regulations will surely cost the NSB hefty fines. With the currently planned upgrades this year, it would be in the best interest for NSB to continue major upgrades sequentially including streamlining vendor supported control systems. The quality and reliability of the life of our power plants depend on such advancements, as well as our communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Project will not expand facilities or services

C. Indicate if this is a reoccurring upgrade or repair.

Reoccurring

D. Detail outside funds being leveraged, if applicable.

No outside funds.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Areawide Power Generation Upgrade 13-279

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

This project will reduce maintenance materials

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristopher Kolodziej, Power System Manager
Signature:	Date:
Department Director Name:	
Department Director Signature:	Date:

*(Handwritten signature and date 3.2.20 are present in the original image)*

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT

**LOCATION:** BARROW, AK

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 14-131

TYPE: UpFund

DATE SUBMITTED: 2/13/2020

AMOUNT REQUESTED: \$2,112,000

REQUESTING ENTITY: NSB SEARCH & RESCUE

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** NSB SEARCH & RESCUE

**2. PROJECT NAME:** NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

401ES  
ENGINE MID TIME 41.2 HOURS OVERHAUL NOW \$500,000.00  
ENGINE MID TIME 41.2 HOURS OVERHAUL NOW \$500,000.00  
AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES \$120,000.00  
RETIREMENT AND REPLACEMENT PARTS \$150,000.00  
TOTAL \$1,270,000.00

402ES  
AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES \$100,000.00  
RETIREMENT, REPLACEMENT PARTS, & AOG PARTS \$100,00.00  
TOTAL \$200,000.00

408SR  
AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES \$50,000.00  
RETIREMENT, REPLACEMENT PARTS, & AOG PARTS \$100,000.00  
TOTAL \$150,000.00

789SR  
AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES SELLING  
PARTS REPLACEMENT: RETIREMENT PARTS AND AOG PARTS SELLING  
TOTAL SELLING

917CB  
AIRFRAME MAINTENANCE PARTS NOT COVERED BY TAP 11-2020 to 11-2021 \$300,000.00  
EXAMPLE: FLIR, TRAKKABEAM, MEDICAL, & OTHER OPTIONAL EQUIPMENT  
INSTALLED  
TOTAL \$300,000.00

827HB  
AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES .00  
PARTS NOT COVERED BY CRYSTAL BLUE PROGRAM OR WARRANTY .00  
TOTAL .00

**4. PROJECT LOCATION:**

**PROJECT NAME:** NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT

**LOCATION:** BARROW, AK

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT: N401ES: \$1,270,000.00; N402ES:\$200,000.00; N408SR:\$150,000.00; N917CB:\$300,000.00; 10% ADMINISTRATION COST:\$192,000.00.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)	AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT	\$1,920,000.00	\$ 1,920,000.00
<b>Professional Services</b> (Design, legal, other)			\$
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	10% ADMINISTRATION COST	\$192,000.00	\$ 192,000.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 2,112,000.00
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2019?**  No  Yes  
If yes, please identify how much will be needed prior to November 2019 and justify why it will be needed.

N/A

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 64106

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  No  Yes

If No, explain why it should be considered out of sequence:

COMPUTERIZED AIRCRAFT LOGBOOK MANAGER (C.A.L.M.) SYSTEMS IS USED ON ALL NORTH SLOPE BOROUGH SEARCH AND RESCUE AIRCRAFT'S TO BASE ON ANTICIPATED FLIGHT ACTIVITY FOR THE MAINTENANCE DIVISION AND DETAILS WHEN RETIRED OR OVERHAUL PARTS ARE DUE.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

THIS REQUEST IS FOR PURCHASE OF AIRCRAFTS PARTS, THAT WILL REPLACE RETIRED USEFUL LIFE OR FAILED PARTS. BEING ABLE TO MAINTAIN THE AIRCRAFTS OPERATIONAL WILL ALLOW SEARCH AND RESCUE TO KEEP PROVIDING SAFE, RAPID, AND RELIABLE AIRBORNE RESPONSE TO MEDICAL EVACUATIONS (MEDEVACS), SEARCH AND RESCUES, AND OTHER EMERGENCIES MAINTAINING A 24/7 RESPONSE CAPABILITY.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

THIS REQUEST IS FOR PURCHASE OF AIRCRAFTS PARTS, THAT WILL REPLACE RETIRED USEFUL LIFE OR FAILED PARTS. BEING ABLE TO MAINTAIN THE AIRCRAFTS OPERATIONAL WILL ALLOW SEARCH AND RESCUE TO KEEP PROVIDING SAFE, RAPID, AND RELIABLE AIRBORNE RESPONSE TO MEDICAL EVACUATIONS (MEDEVACS), SEARCH AND RESCUES, AND OTHER EMERGENCIES MAINTAINING A 24/7 RESPONSE CAPABILITY.

D. Detail outside funds being leveraged, if applicable.

THIS IS AN ON-GOING PROJECT, BUT THE FUNDING REQUEST ARE FOR AIRCRAFT PARTS THAT WILL BE USED AS WELL AS REFURBISHMENT AND OVERHAULS THAT WOULD BE SCHEDULE THROUGHOUT 2020-2021

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

N/A

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

N/A

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

N/A

**PROJECT NAME:** NSB SEARCH AND RESCUE AIRCRAFT REPLACEMENT PARTS, UPGRADES AND REFURBISHMENT

**LOCATION:** BARROW, AK

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

N/A

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

AIRCRAFT PARTS, UPGRADES AND REFURBISHMENT ARE DICTATED BY VERY STRICT GUIDELINES WHICH ARE DEFINED IN THE FEDERAL AVIATION REGULATIONS. NON-COMPLIANCE OF SUCH REGULATIONS MAY LEAD TO SUSPENSION OF FLIGHT PRIVILEGES, GROUNDING OF AIRCRAFT AND/OR SEVERAL PENALTIES. THE NORTH SLOPE BOROUGH SEARCH AND RESCUE WILL BE UNABLE TO SERVE THE DEPARTMENT'S PRIMARY MISSION IF THE AIRCRAFTS WEREN'T PROPERLY MAINTAIN, WHICH COULD LEAD TO A LIFE OR DEATH SITUATION FOR THE RESIDENTS OF THE NORTH SLOPE. CIP FUNDING IS A TREMENDOUS COST SAVINGS TO THE NSB SEARCH AND RESCUE'S OPERATING BUDGET; IT'S DIFFICULT TO PREDICT MAJOR EQUIPMENT FAILURE OR DAMAGE CAUSE BY THE HARSH CONDITIONS WE OPERATE IN, WHICH COULD CONSUME THE ENTIRE OPERATING BUDGET DEPENDING ON THE INCIDENT. WE ARE ABLE TO MANAGE DAY TO DAY INSPECTIONS, OVERHAULS AND MAINTENANCE THROUGH OUR OPERATING BUDGET, LEAVING THE MAJOR OVERHAUL AND REFURBISHMENTS FOR CAPITAL IMPROVEMENT PROJECTS.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

PLEASE SEE ATTACHED FILE.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

N/A

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	LUCINDA ELLIOTT, SAR DIVISION MANAGER
Signature:	<i>Lucinda Elliott</i> Date: <i>2/21/2020</i>
Department Director Name:	APRIL D. BROOKS, DIRECTOR OF SEARCH AND RESCUE
Department Director Signature:	<i>April Brooks</i> Date: <i>2-21-20</i>

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**401ES**

ENGINE MID TIME	41.2 HOURS	OVERHAUL	NOW	500,000.00
ENGINE MID TIME	41.2 HOURS	OVERHAUL	NOW	500,000.00
AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES				120,000.00
RETIREMENT AND REPLACEMENT PARTS				<u>150,000.00</u>
TOTAL				1,270,000.00

**402ES**

AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES				100,000.00
RETIREMENT, REPLACEMENT PARTS, & AOG PARTS				<u>100,000.00</u>
TOTAL				200,000.00

**408SR**

AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES				50,000.00
RETIREMENT, REPLACEMENT PARTS, & AOG PARTS				<u>100,000.00</u>
TOTAL				150,000.00

**789SR**

AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES				SELLING
PARTS REPLACEMENT: RETIREMENT PARTS AND AOG PARTS				<u>SELLING</u>
TOTAL				SELLING

**917CB**

AIRFRAME MAINTENANCE PARTS NOT COVERED BY TAP 11-2020 to 11-2021				<u>300,000.00</u>
EXAMPLE: FLIR, TRAKKABEAM, MEDICAL, & OTHER OPTIONAL EQUIPMENT				
INSTALLED				
TOTAL				300,000.00

**827HB**

AIRFRAME 11-2020 to 11-2021 REFURBISH & UPGRADES				.00
PARTS NOT COVERED BY CRYSTAL BLUE PROGRAM OR WARRANTY				<u>.00</u>
TOTAL				.00



**PROJECT NAME:** Village Landfill Fences

**LOCATION:** Areawide

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: ~~65-088~~ 15-088 TYPE: Upfund

DATE SUBMITTED: 12/16/2019

AMOUNT REQUESTED: \$ ~~679,960.00~~ \$680,000

REQUESTING ENTITY: Public Work/Village Services

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via Inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Work/Village Services

**2. PROJECT NAME:** Village Landfill Fences

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The areawide Village Landfill Fences are frequently damaged by snow drifts. The tension wire and chain link fabric get stretched and pulled down the posts. The fabric cannot be reused. Posts and top rail also bent and damaged during spring breakup.

DEC requires landfill to be secure, with chain link fences and gates.

This request is for Wainwright, The landfill historically is covered with snow. Vehicle access the landfill is through tunnels during late winter months. The chain link fences, and gates are damaged and need repair.

The conditions at Point Lay have changed recently, A dedicated snow fence protect the landfill, so excess snow will not inundate the site.

**4. PROJECT LOCATION:**

Areawide

**PROJECT NAME:** Village Landfill Fences

**LOCATION:** Areawide

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

This Request      \$ 679,960.00

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design 8%		\$ 64,000.00
<b>Construction / Acquisition</b> (anticipated costs)		Based on historic projects	\$ 800,000.00
<b>Administration</b> (NSB project management)	CIPM 10%		\$ 86,400.00
<b>Contingency</b> (if not included in other line items)	10%		\$ 142,560.00
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 679,960.00
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No     Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No     Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

Estimates have not been prepared for all sites. It is anticipated that is similar funding levels may be needed at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Village Landfill Fences

**LOCATION:** Areawide

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The Villages Landfill Fences are Damaged and do not secure the landfills. DEC requires that landfill be secure. This may be a deficiency on the next landfill inspection.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project does not expand NSB Facilities, but it will reduce the maintenance cost of the landfill fencing.

C. Indicate if this is a reoccurring upgrade or repair.

This a reoccurring project until all sites are upgraded.

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

---

**PROJECT NAME:** Village Landfill Fences

**LOCATION:** Areawide

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, RA&S Division Manager		
Signature:		Date:	3/10/20
Department Director Name:	Scott R. Danner, Director, Department of Public Works		
Department Director Signature:		Date:	3.10.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Barrow Landfill Phase V

**LOCATION:** Utqiagvik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 15-104

TYPE: UpFund

DATE SUBMITTED: 03/10/2020

AMOUNT REQUESTED: \$5,000,000

REQUESTING ENTITY: Department of Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Department of Public Works

**2. PROJECT NAME:** Barrow Landfill Phase V

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The current permitted approved plan is to close Cell 2, use Cell 4 as active cell and Cell 3 as a working pad. Cell 3 was completed 3 years ago and still actively being drained. Operations is able to use Cell 3 in the winter, but cannot operate equipment during the summer months. In order for Operations to utilize Cell 5 as a working pad for the next phase Cell 5 will need to be built in advance to give time for the pad to drain.

**4. PROJECT LOCATION:**

Utqiagvik

**PROJECT NAME:** Barrow Landfill Phase V

**LOCATION:** Utqiagvik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Cell 5 Pad Construction \$5,000,000

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design @ 4%		\$ 200,000
<b>Construction / Acquisition</b> (anticipated costs)	Construction		\$ 3,550,000
<b>Administration</b> (NSB project management)	CIPM 10%		\$ 500,000
<b>Contingency</b> (if not included in other line items)	15%		\$ 750,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 5,000,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

N/A

**PROJECT NAME:** Barrow Landfill Phase V

**LOCATION:** Utqiagvik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Cell 5 is the next cell designed for operation. Cell 5 will be completed and operations shift to Cell 5 late 2020. The development is required to maintain the solid waste disposal service in Utqiagvik, and to remain in compliance with the DEC Solid Waste permit.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The project will expand the Barrow landfill, but not change services. Operational costs increase are expected to be minor, tied to monitoring activities at the closed cells.

C. Indicate if this is a reoccurring upgrade or repair.

Yes, as the landfill fills up, a new cells will be opened, and full cells will be closed.

D. Detail outside funds being leveraged, if applicable.

none

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

DEC has written numerous letters that the NSB need to say in compliance at the landfill, and to stay ahead of developments. Failure to meet development requirements this year are likely to be met with an NOV.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Barrow Landfill Phase V

**LOCATION:** Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

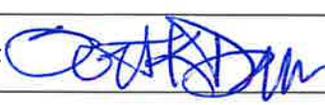
No  Yes If yes, indicate PAR name and date: 18-041 Barrow Landfill Phase II Development

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, RA&S Division Manager, Department of Public Works		
Signature:		Date:	3/10/20
Department Director Name: Scott K. Danner, Director, Department of Public Works			
Department Director Signature:		Date:	3-10-20

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** AREAWIDE LANDFILL EXPANSION  
**LOCATION:** POINT HOPE

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 15-107      TYPE: Upfund  
DATE SUBMITTED: 02/26/2020      AMOUNT REQUESTED: \$2,597,000.00  
REQUESTING ENTITY: Department of Public Works      AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Department of Public Works

**2. PROJECT NAME:** AREAWIDE LANDFILL EXPANSION

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The landfill for Point Hope will be nearing capacity for the existing developed boundary. The project requires early permitting and expansion to allow for uninterrupted disposal of municipal solid waste. The proposed expansion is to construct containment berms on top of the existing developed landfill footprint thus increasing the storage capacity of the landfill.

---

**4. PROJECT LOCATION:**

Point Hope

**PROJECT NAME:** AREAWIDE LANDFILL EXPANSION

**LOCATION:** POINT HOPE

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$2,597,000.00

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design and CA	12%	\$ 209,001
<b>Construction / Acquisition</b> (anticipated costs)	Construction	Engineers ROM Estimate	\$ 1,741,679
<b>Administration</b> (NSB project management)	CIPM	10%	\$ 174,168
<b>Contingency</b> (if not included in other line items)	20%		\$ 348,336
<b>Other Costs</b> (with description)	Time Escalation 5%	Engineers ROM Estimate	\$ 123,659
<b>TOTAL</b>			\$ 2,596,843
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

N/A

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 65-107

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This is a followup request to fund the Point Hope Landfill. Wainwright was funded in 2017.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Point Hope Cost: \$2,596,843

**PROJECT NAME:** AREAWIDE LANDFILL EXPANSION

**LOCATION:** POINT HOPE

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

The landfill is reaching capacity and bears consideration outside of the schedule. No accessible alternatives exist at this point in time for alternate disposal sites.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The project will expand the existing landfill within the existing developed landfill footprint. The project will add additional storage capacity to the landfill and provide continued waste disposal for the communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The project does not expand existing facilities footprint and will not add to the operating costs of the landfills.

C. Indicate if this is a reoccurring upgrade or repair.

This is a one time upgrade.

D. Detail outside funds being leveraged, if applicable.

none

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** AREAWIDE LANDFILL EXPANSION

**LOCATION:** POINT HOPE

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

UMIAQ Landfill Expansion Cost Estimate February 24, 2017

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

N/A

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, Deputy Director, Department of Public Works
Signature:	Date:
Department Director Name: Scott K. Danner, Director, Department of Public Works	
Department Director Signature:	Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Vesta E911 System Upgrade

**LOCATION:** Barrow

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 17-NEW-01 TYPE: **NEW**  
DATE SUBMITTED: 2/13/2020 AMOUNT REQUESTED: \$879,000  
REQUESTING ENTITY: Police Department AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

Incomplete or unsigned requests are unacceptable and will be returned.

1. **REQUESTING ENTITY:** Police Department

2. **PROJECT NAME:** Vesta E911 System Upgrade

3. **PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will upgrade the current 911 call taking equipment with new Vesta E911 equipment and operating system.

The existing equipment is at its end of life.

The equipment will be housed at the Police Department, but a new portable command post will be put into the EOC. This new command post is a very cost effective mobile solution for emergency call centers in need of temporary call taking abilities at a remote location such as the Boroughs EOC. this is one more step taken towards having a true hardened EOC.

This equipment provides 911 call taking services to the entirety of the North Slope Borough.

**4. PROJECT LOCATION:**

The Equipment would be housed in Barrow at the Police Department and the EOC. but the service area is the geographic area of the North Slope Borough.

PROJECT NAME: Vesta E911 System Upgrade

LOCATION: Barrow

5. **DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Total project costs including 10% contingency is \$878,713.00

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Labor, Training, Logistics	Vendor Quote	\$ 175,790.00
<b>Construction / Acquisition</b> (anticipated costs)	Hardware and Licensing	Vendor Quote	\$ 267,623.00
<b>Administration</b> (NSB project management)	Engineering and Management	Vendor Quote	\$ 16,255.00
<b>Contingency</b> (if not included in other line items)			\$ 79,883.00
<b>Other Costs</b> (with description)	5 year MSA and Warranty	Vendor Quote	\$ 339,162.00
<b>TOTAL</b>			\$ 878,713.00
<b>TOTAL PROJECT COST</b> (if different)			\$ 878,713.00

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

8. **PROJECT PHASING OR UPFUND:**  
Is this a phased project or a follow-up to an existing CIP project?  No  Yes  
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This upgrade cannot be phased.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

the equipment resides in Barrow, but this service spreads to all Villages, and the entire Borough

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

PROJECT NAME: Vesta E911 System Upgrade

LOCATION: Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

The current 911 call taking equipment has reached its end of life, and a system upgrade is required to maintain a trouble free system, and to provide 911 call taking capability for the next 5 to 10 years with a high degree of confidence.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The current 911 call taking system is close to its expected end of life. And as in many computer systems, servers and consoles need a refresh usually about every 5 years. This current system went live in 2014. The current system is using windows 7, which has an end of life date of 1-14-2020. the system hardware is at end of life and will not support Vestas software upgrades.

Included in this proposal is the important mobile command post. this is a portable laptop that should be located in the EOC. this will give the Borough the ability to continue to take 911 calls in the event something would happen to the Dispatch center.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The new system will expand its services in that new technology will allow not only audio 911 calls to be taken at the PSAP center, but also accept SMS/Text 911 calls as well. This very beneficial option will give someone in need of assistance, the ability to text and not have to make a voice call.

Included in this proposal is the important mobile command post. this is a portable laptop that should be located in the EOC. this will give the Borough the ability to continue to take 911 calls in the event something would happen to the Dispatch center. This will be one more step taken to insure the Borough has a true EOC.

C. Indicate if this is a reoccurring upgrade or repair.

This system should be monitored for upgrade/replacement as recommended by equipment manufactures and system vendors. PCA has indicated that this new system may be supported for up to 10 years.

D. Detail outside funds being leveraged, if applicable.

None

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The Boroughs current Managed Services Agreement is with ProCommAlaska. Included in the MSA is an annual site visit for a health check of the system. PCA has been advising that we are in of this upgrade. A formal letter will be provided by PCA.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Vesta E911 System Upgrade

**LOCATION:** Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

PCA, the Boroughs system provider has advised that this upgrade is needed to avoid interruption in 911 call taking service.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

Annual MSA will remain close to the same, however 5 years of this maintenance is included in the upfront cost, so the Borough will not incur any annual maintenance costs for 5 years.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

Vesta 911 System Upgrade by ProCommAlaska

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Darrel Love, Support Services Manager
Signature:	 Date: 2-3-2000
Department Director Name:	Jeffrey R. Brown
Department Director Signature:	 Date: 3 FEB 20

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



---

2100 E. 63<sup>rd</sup> Ave  
Anchorage, Alaska 99507  
Phone: 907-563-1176

815 2<sup>nd</sup> Ave #113  
Fairbanks, Alaska 99701  
Phone: 907-452-4428

February 27, 2020  
Mr. Darrel Love  
Support Services Manager,  
North Slope Borough Police Department  
Re: NSB PD E911 System Upgrade Requirements

Hello Mr. Love,

Glen can confirm too, but the reasons for the upgrades have to do with much of your software no longer being supported by MicroSoft. The Notification we received was that the software is no longer supported, and in order to install new software, the computers need to be upgraded as the new software won't work on the old hardware. A Motorola VESTA Solution is the required upgrade.

The Windows 7 OS (call takers positions and admin machines) is no longer supported by MicroSoft. Windows 2008 Server (all servers related to call processing) are no longer supported by MicroSoft. This is the heart of your 911 Operating System.

Additionally, the NSB PD suite has Hypervisor 1 and Hypervisor 2 which host the MDS 1 and MDS 2 (Media Distribution Servers) as well as the DDS 1 and DDS 2 virtual Data Distribution Servers. MDS and DDS servers are both Windows 2008 OS and their support has waned too.

The intended upgrade is in response for a plan of action related to the Operating Systems involved, and the new hardware required software upgrades to the latest (supported) Operating Systems so we can monitor them or repair them if they have or have service issues.

Current call taker computers and servers are not capable of upgrading to the new Windows Operating Systems without hardware upgrades of the computers, so this is basically a complete upgrade. Due to the increased hardware requirements for upgrading to the latest Operating Systems, the NSB needs both the hardware and software upgrades. I hope this helps and let me know if you need more information

Gary Peters  
*Gary Peters*  
Pres & CEO, ProComm Alaska





**PROJECT NAME:** Vehicle Replacement

**LOCATION:** Barrow Alaska

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-054-1

TYPE: UpFund

DATE SUBMITTED: 2/13/2020

AMOUNT REQUESTED: \$92,000 All though LOI

REQUESTING ENTITY: Inupiat History, Language & Culture Department (IHLC)

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Inupiat History, Language & Culture Department (IHLC)

**2. PROJECT NAME:** Vehicle Replacement

**3. PROJECT DESCRIPTION:**

- **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

We would like to replace the following Vehicles:

1. 2006 Ford Mini-Van VIN#2FMZAS1646BA067018

With a 2020 Ford Transit Connect Wagon or similar (something that can seat 6 or more)

2. 2011 Ford Escape VIN#1FMCU9L74BKC31260

With a 2020 Ford Ranger Lariat pick up truck with 4 wheel drive and 4 doors.

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Barrow IHLC Department

**PROJECT NAME:** Vehicle Replacement

**LOCATION:** Barrow Alaska

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

2020 mini-van or similar - \$30,000 + \$10,000 Freight or CWAT

2020 Ford Ranger 4 door - \$42,000 + \$10,000 Freight or CWAT

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No

Yes

If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Vehicle Replacement  
**LOCATION:** Barrow Alaska

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

One of our vehicles is 14 years old and as I was dropping off our elders to their destination, we got stuck at a flat intersection because it is not 4 wheel drive and just old.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

The maintenance cost will definitely go down.

C. Indicate if this is a reoccurring upgrade or repair.

No

D. Detail outside funds being leveraged, if applicable.

n/a

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Vehicle replacement

**LOCATION:** IHLC Department

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

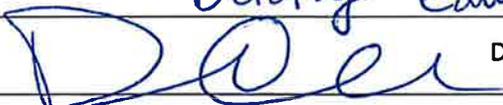
No  Yes (If yes, include written verification)

Explanation, if necessary:

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title:	Dorothy Edwardson		
Signature:		Date:	1/27/2020
Department Director Name:	Colleen Atvik-Lemke		
Department Director Signature:		Date:	01/27/2020

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Polar Bear Patrol

**LOCATION:** Utqiagvik & Kaktovik

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-054-2

TYPE: UpFund

DATE SUBMITTED: 3/2/2020

AMOUNT REQUESTED: \$149,000 All through LOI

REQUESTING ENTITY: NSB Department of Wildlife Management

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** NSB Department of Wildlife Management

**2. PROJECT NAME:** Polar Bear Patrol

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

2020 Ford F-150 x3

Kaktovik: adding one truck to the kaktovik fleet for polar bear patrol. coudrently we only have one Polar Bear Patrol vehicle there and would like to have one more for safety purposes. there is a high number of bears in the area.

Utqiagvik: Adding one polar bear patrol vehicle to the fleet due to a higher than normal polar bear year. Also, truck #1008 f250 Crew cab will be phased out due to being in a collision.

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Utqiagvik and Kaktovik.

**PROJECT NAME:** Polar Bear Patrol

**LOCATION:** Utqiagvik & Kaktovik

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

each vehicle will have a base cost of \$37,000 x3 = 111,000.00

Amber Strobe Lights and LED Spot Lights \$2500x3 = \$7500.00

shipping to Utqiagvik and kaktovik will be \$10,000 x3 = \$30,000.00

Total estimated cost = \$148,500.00

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

Polar Bear Petrol Vehicles are actively all being worked on and not running.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

if maintained properly the trucks can be phased every 6-10 years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

a polar bear patrol vehicle in Kaktovik is warranted due to having only one patrol vehicle available for more than 3 active patrollers.

An additional Polar bear patrol vehicle in Utqiagvik is needed to supplement from taking harvest vehicles when not necessary as well as a higher than usual presence of Polar Bears getting into town.

**PROJECT NAME:** Polar Bear Patrol

**LOCATION:** Utqiagvik & Kaktovik

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

currently the Department of Wildlife trucks are beginning to fail due to aging and rough use. our department uses the trucks heavily during the whaling and seal hunting seasons for sampling. new trucks will benefit our department by not having them out of commission and inoperable.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

one truck will be an addition for Utqiagviks fleet due to meet our Polar Bear Patrol needs. we need one more Patrol vehicle so we do not utilize the Harvest Vehicles.

C. Indicate if this is a reoccurring upgrade or repair.

this should be a one time upgrade.

D. Detail outside funds being leveraged, if applicable.

N/A

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

without the Polar Bear Patrol Vehicles needed we face immediate danger from the increased Polar Bear interactions within the Villages of Utqiagvik and Kaktovik.

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Polar Bear Patrol

**LOCATION:** Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

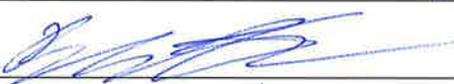
Explanation, if necessary:

less maintenance to the shop 1 employees.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brower Frantz, Subsistence Research Coordinator		
Signature:		Date:	2-28-20
Department Director Name:	Rayniz Hops		
Department Director Signature:		Date:	2-28-20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Barrow Up Fund Heavy Equipment Major Repair  
**LOCATION:** Barrow

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-094  
DATE SUBMITTED: 3/4/2020  
REQUESTING ENTITY: Public Works

TYPE: UpFund  
AMOUNT REQUESTED: \$390,000  
AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Barrow Up Fund Heavy Equipment Major Repair

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Funds would be used to offset the cost for component failure that the operating budget would not be able to burden. Components failures are common with the aging equipment. Engines, transmissions and undercarriages are just some of the components failures the equipment maintenance deals with.

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Barrow

**PROJECT NAME:** Barrow Up Fund Heavy Equipment Major Repair

**LOCATION:** Barrow

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

UP FUND	\$300,000.00
15% ADMIN	\$45,000.00
15% CONTINGENCY	\$45,000.00
TOTAL COST	\$390,000.00

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Barrow Up Fund Heavy Equipment Major Repair  
**LOCATION:** Barrow

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Some components are at the end of their life and would need to be replaced.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

Yes

D. Detail outside funds being leveraged, if applicable.

N/A

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Barrow Up Fund Heavy Equipment Major Repair

**LOCATION:** Barrow

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

it will reduce maintenance cost on the operating budget in Barrow

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

N/A

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

N/A

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski Lead Mechanic Shop II	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Nuiqsut

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-102

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$893,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Nuiqsut require periodic upgrade or replacement to continue providing essential services to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrade \$411,321.00

Glycol Replacement at the Fair Station \$100,000.00

Fire Alarm Sprinkler System Upgrade and Add Building Alarm Notification - \$300,000.00

**4. PROJECT LOCATION:**

Nuiqsut

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Nuiqsut

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$892,264.00

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	PSD HVAC Upgrades Glycol Replacement at Fire Station Fire Alarm Sprinkler System Upgrade Add Notification		411,132.00 \$ 100,000.00 300,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	CIPM 10%		41,132.00 \$ 10,000.00 30,000.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ 892,264.00

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Nuiqsut

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Services.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Nuiqsut

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance
Signature:	Date:
Department Director Name:	Scott K. Danner
Department Director Signature:	Date: 3.2.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Anaktuvuk Pass

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-103

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,358,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Anaktuvuk Pass require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades

Glycol Replacement for Fire Station

Fire Alarm Sprinkler System Upgrade and add Fire Alarm Notification: Power Plant, Simon Paneak Museum, Water Treatment Plant an Waste Water Treatment Plant. \$740,000.00

**4. PROJECT LOCATION:**

Anaktuvuk Pass

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Anaktuvuk Pass

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$1,357,936.04

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	PSO HVAC Upgrade Glycol Replacement Fire Station Fire Alarm Sprinkler System Upgrade/Addition		394,487.31 \$ 100,000.00 740,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	CIPM 10%		39,448.73 \$ 10,000.00 74,000
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ 1,357,936.04

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Anaktuvuk Pass

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

**10. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Anaktuvuk Pass

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance
Signature:	Date:
Department Director Name:	Scott K. Danner
Department Director Signature:	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Atqasuk

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-104

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$440,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Atqasuk require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Glycol Replacement for Fire Station \$100,000.00

Fire Alarm Sprinkler System Add building Fire Alarm Notification, new fire pump controller for the Water Treatment Plant and Waste Water Treatment Plant \$300,000.00

**4. PROJECT LOCATION:**

Atqasuk

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Atqasuk

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Glycol Replacement for Fire Station Fire Alarm Sprinkler System Add notifications		\$ 100,000.00 \$ 300,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	CIPM 10%		\$ 10,000.00 \$ 30,000.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ \$440,000.00

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Atqasuk

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Atqasuk

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance
Signature:	Date:
Department Director Name: Scott K. Danner	
Department Director Signature: 	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-106

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$713,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Wainwright require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades \$427,846.00

Glycol Replacement for Fire Station \$10,000.00

Fire Alarm and Sprinkler System Upgrades for WWTP \$120,000.00

**4. PROJECT LOCATION:**

Wainwright

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Wainwright

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

712,627.60

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Police Station HVAC Glycol Replacement Fire Station WWTP Fire Alarm Notification Installation		427,846.00 \$ 100,000.00 \$120,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)			42,781.00 \$ 10,000.00 12,000.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ 712,627.60

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Wainwright

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance
Signature:	Date:
Department Director Name: Scott K. Danner	
Department Director Signature:	Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Kaktovik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-107

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,043,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Kaktovik require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades \$423,033.00

Glycol Replacement for Fire Station \$100,000.00

Fire Alarm Sprinkler Suppression Upgrade, Addition Notification for Health Clinic, Vac Station, Water Treatment Plant, and Waste Water Treatment Plant - \$425,000.00

**4. PROJECT LOCATION:**

Kaktovik

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Kaktovik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$1,042,836.00

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Police HVAC Glycol Replacement Fire Alarm Sprinkle System Addition Notification		423,033.00 \$ 100,000.00 \$425,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	10 % Administration		42,303.00 \$ 10,000.00 42,500.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ 1,042,836.00

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Kaktovik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Kaktovik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include **written verification**)  
Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance	
Signature:		Date:
Department Director Name:	Scott K. Danner	
Department Director Signature:		Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Point Lay

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-108

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,190,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Point Lay require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Police Station HVAC upgrades \$421,000.00

Glycol Replacement for Fire Station \$100,000.00

Fire Alarm Sprinkler System Addition and Upgrade \$ 560,000.00

**4. PROJECT LOCATION:**

Point Lay

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Point Lay

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$1,189,100.00

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Police Station HVAC Upgrades Glycol Replacement for Fire Station Fire Alarm Sprinkler System Additional Notification		421,000.00 \$ 100,000.00 560,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	CIPM 10%		42,100.00 \$ 10,000.00 56,000.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ 1,189,100

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Point Lay

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Point Lay

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance	
Signature:		Date:
Department Director Name:	Scott K. Danner	
Department Director Signature:		Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Barrow

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-109

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$1,760,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Facility Major Repairs and Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

North Slope Borough Facilities in Barrow require periodic upgrade or replacement to continue providing essential service to the community. This is an ongoing project that is utilized to repair and upgrade many Borough Facilities and their control systems.

Shop II Flooring, break room, additional bathroom \$150,000.00

Electronic door access controls upgrade to Genetec access controls, \$150,000.00

Heritage Center elevator upgrade \$200,000.00

Police Department HVAC Upgrades \$150,000.00

Shop III Boiler replacement \$150,000.00

Fire Alarm Sprinkler System Upgrade for Police Department, PW Transit Shop, PW Transit Station, Health Vet Clinic, Health Gathering Place and Old Search and Rescue Hangar \$800,000.00

**4. PROJECT LOCATION:**

Barrow

**PROJECT NAME:** Facility Major Repairs and Upgrades  
**LOCATION:** Barrow

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$1,760,000.00

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)			\$ 1,600,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)			\$ 160,000.00
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST (if different)</b>			\$ 1,760,000.00

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Barrow

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This Project is primarily funded to repair and upgrade capital assets that have failed to meet their estimated useful life due to unforeseen condition and does not expand facilities but does maintain service levels for numerous Borough Service.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

This facility repair/upgrade project maintain the Borough's infrastructure, such as the structural, mechanical, electrical and control systems which are all in periodic need of major repairs and upgrades to continue to be safe and suitable for use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Facility Major Repairs and Upgrades

**LOCATION:** Barrow

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Roberta Oviok, Division Manager Facility Maintenance	
Signature:		Date:
Department Director Name:	Scott K. Danner	
Department Director Signature:		Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-110

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$3,029,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank  
 Trash Truck Peterbilt 40 CU YD Tandem Frontload  
 Snow Blower Oshkosh SEB singe engine  
 CAT D8 Dozer

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Wainwright

**PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade  
**LOCATION:** Wainwright

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$41,000  
Trash Truck Peterbilt 40 CU YD Tandem Frontload \$271,000 Freight \$49,000  
Snow Blower Oshkosh SEB single engine \$570,000 Freight \$47,000  
CAT D8 Dozer \$900,000 Freight \$100,000  
15% Contingency \$388,000  
15% Admin \$388,000  
Total Cost \$3,029,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?  
 No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**  
Is this a phased project or a follow-up to an existing CIP project?  No  Yes  
If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**  
Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes  
If Yes, is it scheduled for replacement before 2025?  No  Yes  
If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade

**LOCATION:** Wainwright

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Wainwright Heavy Equipment Replacement & Upgrade

**LOCATION:** Wainwright

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

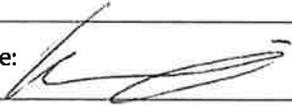
Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Nuiqsut Heavy Equipment Replacement & Upgrade

**LOCATION:** Nuiqsut

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-111

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,113,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Nuiqsut Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank  
 Volvo A25 Rock Truck  
 Snow Blower Oshkosh SEB singe engine  
 Trash Truck Peterbilt 40 CU YD Tandem Frontload

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Nuiqsut

**PROJECT NAME:** Nuiqsut Heavy Equipment Replacement & Upgrade

**LOCATION:** Nuiqsut

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$17,000  
Volvo A25 Rock Truck \$383,000 Freight \$28,000  
Snow Blower Oshkosh SEB single engine \$ 570,000 Freight \$57,000  
Trash Truck Peterbilt 40 CU YD Tandem Frontload \$271,000 Freight \$24,000  
15% Contingency \$244,000  
15% Admin \$244,000  
Total Cost \$2,113,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Nuiqsut Heavy Equipment Replacement & Upgrade

**LOCATION:** Nuiqsut

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Nuiqsut Heavy Equipment Replacement & Upgrade

**LOCATION:** Nuiqsut

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

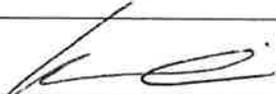
Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Utqiagvik Heavy Equipment Replacement & Upgrade

**LOCATION:** Utqiagvik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-112-1

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,817,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Utqiagvik Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

CAT Grader 160 AWD  
VOLVO L180H Loader  
VOLVO A25G Rock truck  
VOLVO L90 loader  
Forklift for Gasfield/Genie GTH-1056  
Road Water Truck/Peterbilt Tandem 5000G

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Utqiagvik

**PROJECT NAME:** Utqiagvik Heavy Equipment Replacement & Upgrade

**LOCATION:** Utqiagvik

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

CAT Grader 160 AWD \$428,000 Freight \$70,000  
VOLVO L180H Loader \$510,000 Freight \$62,000  
VOLVO A25G Rock Truck \$383,000 Freight \$28,000  
VOLVO L90 Loader \$208,000 Freight \$26,000  
Forklift for Gasfield/Genie GTH-1056 \$163,000 Freight \$37,000  
Road Water Truck/Peterbilt Tandem 5000G \$198,000 Freight \$52,000  
15% Contingency \$326,000  
15% Admin \$326,000  
Total Cost \$2,817,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Utqiagvik Heavy Equipment Replacement & Upgrade  
**LOCATION:** Utqiagvik

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Utqiagvik Heavy Equipment Replacement & Upgrade

**LOCATION:** Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

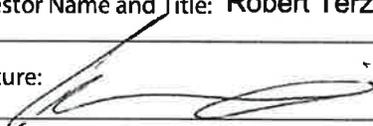
**12. ATTACHMENTS:** List any supplemental information submitted with this request.

--

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

--

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:**  
**LOCATION:** Utqiagvik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-112-2      TYPE: UpFund  
DATE SUBMITTED: 3/2/2020      AMOUNT REQUESTED: \$84,000  
REQUESTING ENTITY: NSB Department of Wildlife Management      AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP VEHICLE AND EQUIPMENT REQUEST FORM**

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** NSB Department of Wildlife Management

**2. PROJECT NAME:**

**3. PROJECT DESCRIPTION:**

- **Vehicles:** indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- **Equipment:** be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Bobcat 650 Skidsteer

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Utqiagvik

**PROJECT NAME:**

**LOCATION:** Utqiagvik

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

cost of the equipment is 74,000 with 10,000 for shipping totaling 84,000.

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

vehicle specific training can be provided in house and does not require a CDL.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:**

**LOCATION:** Utqiagvik

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

the NSB Wildlife Department currently has a lack of snow removal at the NARL Facility and the Bobcat would help substantially for our facilities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

we have adequate facility space at the NARL Facility. Services would increase slightly for having a new piece of equipment.

C. Indicate if this is a reoccurring upgrade or repair.

this should be a one time upgrade in equipment.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:**  
**LOCATION:** Utqiagvik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No     Yes (If yes, include **written verification**)

Explanation, if necessary:

[Empty box for explanation]

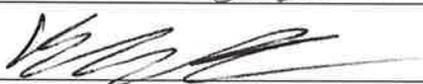
**12. ATTACHMENTS:** List any supplemental information submitted with this request.

[Empty box for attachments]

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

[Empty box for additional information]

**14. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brower Frantz, Subsistence Research Coordinator		
Signature:		Date:	3-2-20
Department Director Name:	Raynitz Hepa		
Department Director Signature:		Date:	3-2-20

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:**

**LOCATION:**

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-112-3

TYPE: UpFund

DATE SUBMITTED: 2/46/2020

AMOUNT REQUESTED: \$210,000 All though LOI

REQUESTING ENTITY: Ilisagvik

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Ilisagvik College

**2. PROJECT NAME:** Ilisagvik College VEWFD Equipment Request

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

1. CAT D5 Dozer – COST: \$105,000 w/shipping

JUSTIFICATION: This model is exactly like the NSB models, so students trained on it will be able to seamlessly move into their Borough jobs. Buying a used model is cost-effective. The Dozer will be used in at least 4 HEO classes per year, if not more. Right now we are limited in what we can offer because we do not have a Dozer; by purchasing this item, we would be able to offer more classes/trainings that use the Dozer and prepare students for the workforce.

2. CAT Simulator COST: \$80,000 w/shipping

JUSTIFICATION: The CAT Simulator can be used in almost all HEO classes, and it can present a variety of machines and scenarios for students to train on. It will never break down, it requires no maintenance or fuel, is flexible in how it can train, it doesn't tear up the roads, and it mirrors exactly the type of equipment that the Borough uses in its own facilities.

3. Bus with Air Brakes – COST: \$25,000

JUSTIFICATION: This would be the exact type of bus that the school district uses so that students can train on it. We do not currently have a working bus.

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Utqiagvik/Barrow, for use of all North Slope students whether they live in Utqiagvik or come to Utqiagvik for training.

**PROJECT NAME:** Iisagvik College VEWFD Equipment Request

**LOCATION:** Barrow/Utqiagvik

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

- 1. CAT D5 Dozer COST: \$105,000 w/shipping
- 2. CAT Simulator COST: \$80,000 w/shipping
- 3. Bus with air brakes COST: \$25,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?  
 No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

Yes, to accomodate students using this equipment prior to the Fall 2020 semester

**8. PROJECT PHASING OR UPFUND:**  
Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**  
Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

We have been borrowing items from the Borough for classes/trainings, which is ineffective in the long-run. The Dozer will be used in at least 4 HEO classes per year, if not more. Right now we are limited in what we can offer because we don't have a Dozer; by purchasing this item, we would be able to offer more classes/trainings that use the Dozer and prepare students for the

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

To adequately train our local workforce, we need to have the equipment that local employers—like the Borough—use.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

We have been very conservative with our equipment buys in the past (infrequent; used items; lots of in-house and some external maintenance to keep items running); now we have a need for some additional items to better serve our students, and, in turn, the local workforce.  
We have been borrowing items from the Borough for classes/trainings which is

C. Indicate if this is a reoccurring upgrade or repair.

Not reoccurring

D. Detail outside funds being leveraged, if applicable.

N/A

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No     Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Justina Wilhelm, Acting President   Iisagvik College	
Signature: 	Digitally signed by Justina DN: cn=Justina, o, ou, email=justina.wilhelm@iisagvik.edu, c=US Date: 2020.02.26 11:51:12 -09'00'
Date: 2.26.2020	
Department Director Name:	
Department Director Signature:	Date:

---

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Atqasuk Heavy Equipment Replacement & Upgrade  
**LOCATION:** Atqasuk

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-114  
DATE SUBMITTED: 3/4/2020  
REQUESTING ENTITY: Public Works

TYPE: UpFund  
AMOUNT REQUESTED: \$2,444,000  
AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Atqasuk Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank  
CAT 140 Grader  
CAT D8 Dozer

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Atqasuk

**PROJECT NAME:** Atqasuk Heavy Equipment Replacement & Upgrade

**LOCATION:** Atqasuk

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$63,000  
CAT 140 Grader \$400,000 Freight \$90,000  
CAT D8 Dozer \$900,000 Freight \$150,000  
15% Contingency \$283,000  
15% Admin \$283,000  
Total Cost \$2,444,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

---

---

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

---

---

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

---

---

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

---

**PROJECT NAME:** Atqasuk Heavy Equipment Replacement & Upgrade

**LOCATION:** Atqasuk

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Atqasuk Heavy Equipment Replacement & Upgrade

**LOCATION:** Atqasuk

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

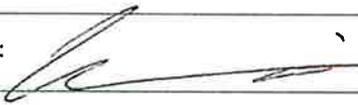
**12. ATTACHMENTS:** List any supplemental information submitted with this request.

--

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

--

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.3.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation .

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Kaktovik Heavy Equipment Replacement & Upgrade  
**LOCATION:** Kaktovik

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-115  
DATE SUBMITTED: 3/4/2020  
REQUESTING ENTITY: Public Works

TYPE: UpFund  
AMOUNT REQUESTED: \$2,872,000  
AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Kaktovik Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank  
CAT D8 Dozer  
Trash Truck Peterbilt 40 CU YD Tandem Frontload  
VOLVO L180 Loader

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Kaktovik

**PROJECT NAME:** Kaktovik Heavy Equipment Replacement & Upgrade

**LOCATION:** Kaktovik

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$41,000  
CAT D8 Dozer \$900,000 Freight \$100,000  
Trash Truck Peterbilt 40 CU YD Tandem Frontload \$271,000 Freight \$49,000  
VOLVO L180 Loader \$510,000 Freight \$62,000  
15% Contingency \$332,000  
15% Admin \$332,000  
Total Cost \$2,872,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Kaktovik Heavy Equipment Replacement & Upgrade

**LOCATION:** Kaktovik

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

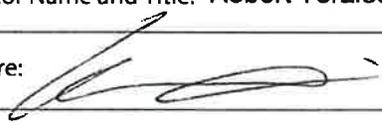
**12. ATTACHMENTS:** List any supplemental information submitted with this request.

--

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

--

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Point Hope Heavy Equipment Replacement & Upgrade  
**LOCATION:** Point Hope

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-116      TYPE: UpFund  
DATE SUBMITTED: 3/4/2020      AMOUNT REQUESTED: \$3,869,000  
REQUESTING ENTITY: Public Works      AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Point Hope Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank  
VOLVO A25 End Dump  
CAT CS56B Compactor  
CAT D8 Dozer  
CAT Grader 14  
CAT 430 Rubber Tired Backhoe

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Point Hope

**PROJECT NAME:** Point Hope Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Hope

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$41,000  
VOLVO A25 End Dump \$383,000 Freight \$28,000  
CAT CS56B Compactor \$300,000 Freight \$46,000  
CAT D8 Dozer \$900,000 Freight \$100,000  
CAT Grader 14 \$572,000 Freight \$78,000  
CAT 430 Rubber Tired Backhoe \$220,000 Freight \$30,000  
15% Contingency \$448,000  
15% Admin \$448,000  
Total Cost \$3,869,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Point Hope Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Hope

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Point Hope Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Hope

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Lay

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-117

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,165,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank

CAT D6 dozer

Ditch Witch RT125

CAT 323 Excavator w/ Thumb

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Point Lay

**PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Lay

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$41,000  
CAT D6 dozer \$620,000 Freight \$73,000  
Ditch Witch RT125 \$271,000 Freight \$39,000  
CAT 323 Excavator w/ Thumb \$330,000 Freight \$70,000  
15% Contingency \$223,000  
15% Admin \$223,000  
Total Cost \$2,165,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Lay

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Point Lay Heavy Equipment Replacement & Upgrade

**LOCATION:** Point Lay

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

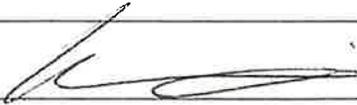
**12. ATTACHMENTS:** List any supplemental information submitted with this request.

--

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

--

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3-20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Village Up Fund Heavy Equipment Major Repair

**LOCATION:** Villages

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-118

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$390,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Village Up Fund Heavy Equipment Major Repair

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Funds would be used to offset the cost for component failures that the operating budget would not be able to burden. Components failures are common with the aging equipment. Engines, transmissions and undercarriages are just some of the component failures that equipment maintenance deals with.

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Area wide villages to help off set the cost of component failure.

**PROJECT NAME:** Village Up Fund Heavy Equipment Major Repair

**LOCATION:** Villages

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

UP FUND	\$300,000.00
15% ADMIN COST	\$45,000.00
15% CONTINGENCY	\$45,000.00
TOTAL COST	\$390,000.00

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

By using this project, we purchase engines, transmissions, undercarrriages, and hydraulic pumps. It will help on our maintenance budget.

C. Indicate if this is a reoccurring upgrade or repair.

We try to up fund this project every year.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (if yes, include written verification)  
Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (if yes, include written verification)  
Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (if yes, include written verification)  
Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (if yes, include written verification)  
Explanation, if necessary:

**PROJECT NAME:** Village Up Fund Heavy Equipment Major Repair  
**LOCATION:** Villages

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

It will reduce maintenance cost on the operating budget in the villages.

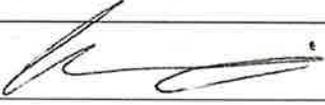
**12. ATTACHMENTS:** List any supplemental information submitted with this request.

--

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

--

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski Lead Mechanic Shop II	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Anaktuvuk Pass Heavy Equipment Replacement & Upgrade

**LOCATION:** Anaktuvuk Pass

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-120

TYPE: UpFund

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,398,00

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP VEHICLE AND EQUIPMENT REQUEST FORM

Use this form for all equipment and/or vehicle purchases or replacements

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** Anaktuvuk Pass Heavy Equipment Replacement & Upgrade

**3. PROJECT DESCRIPTION:**

- Vehicles: indicate the make and model of the vehicle being requested. If this request is for a replacement, include the make, model, year, VIN number, mileage and/or hours, current location, statement of condition and if the vehicle be written-off or traded-in.
- Equipment: be specific in describing the preferred equipment being request. If this request is for replacement equipment, identify the manufacturer, age of the equipment being replaced, date placed into service and a statement of condition.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank

CAT 966 Loader

CAT Grader 140

Trash Truck Peterbilt 40 CU YD Tandem Frontload

**4. PROJECT LOCATION:** If this request is for an areawide project, indicate what is proposed to be done by village.

Anaktuvuk Pass

**PROJECT NAME:** Anaktuvuk Pass Heavy Equipment Replacement & Upgrade

**LOCATION:** Anaktuvuk Pass

**5. PROJECT COST:** Provide and explain the estimated cost including freight to the village. To determine cost, use a vendor quote or a manufacturer's suggested retail price. Provide both the cost break-down for each village and the all-inclusive total. Administrative estimate and contingency should also be included.

Potable Water Truck Peterbilt single axle 1500 Gal SS tank \$275,000 Freight \$65,000  
CAT 966 Loader \$393,000 Freight \$180,000  
CAT Grader 140 \$380,000 Freight \$160,000  
Trash Truck Peterbilt 40 CU YD Tandem Frontload \$271,000 Freight \$120,000  
15% Contingency \$277,000  
15% Admin \$277,000  
Total Cost \$2,398,000

**6. TRAINING:** Will there be training costs associated with the purchase of new equipment or vehicles?

No  Yes If yes, indicate if the training cost is included in the acquisition or purchase price, who would be trained and who would conduct the training. Indicate why training would be needed.

Training is included into the purchase cost. Training is needed to train individuals how to operate and maintain the equipment.

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

B. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

**PROJECT NAME:** Anaktuvuk Pass Heavy Equipment Replacement & Upgrade

**LOCATION:** Anaktuvuk Pass

**10. PROJECT JUSTIFICATION:**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Public Works Equipment & Maintenance Division replacement of equipment is essential to the day to day operations that is performed to the public.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will improve services with less down time.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Anaktuvuk Pass Heavy Equipment Replacement & Upgrade

**LOCATION:** Anaktuvuk Pass

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Warranties on the equipment will cut costs on parts and labor.

**12. ATTACHMENTS:** List any supplemental information submitted with this request.

**13. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**14. REQUESTOR INFORMATION:**

Requestor Name and Title: Robert Terzioski, Lead Heavy Equipment Mechanic	
Signature: 	Date: 02/27/20
Department Director Name: Scott K. Danner, Department of Public Works Director	
Department Director Signature: 	Date: 3.2.20

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** BRW BUS Warm Storage Facility

**LOCATION:** Utqiagvik

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 18-NEW-1    TYPE: New  
DATE SUBMITTED: 3/4/2020    AMOUNT REQUESTED: \$794,000  
REQUESTING ENTITY: Public Works Water & Sewer Utility    AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** BRW BUS Warm Storage Facility

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Design a warm storage building for storage of emergency vehicles and equipment. Re-assess the design recommended in the PAR to significantly reduce the construction costs. The recommended location of the facility remains on the east side of the Wastewater Treatment Plant.

This request is for the first phase of a 2-phase project. Phase I will cover design, and Phase II will cover construction.

This project may bare consideration as part of the ongoing consolidated facility in Utqiagvik.

**4. PROJECT LOCATION:**

Utqiagvik

**PROJECT NAME:** BRW BUS Warm Storage Facility  
**LOCATION:** Utqiagvik

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Total this request for Phase 1: \$793,100

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Design/Professional Services	PAR, adjusted for 2020	\$ 721,000
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	CIPM Administration 10%		\$ 72,100
<b>Contingency</b> (if not included in other line items)			\$
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 793,100
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

This request is for Phase I - Design. Phase II funding will be requested after design is complete.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

The intent of this request is to reduce anticipated construction costs for this needed facility. Phase II construction funding will not be known until design is complete.

**PROJECT NAME:** BRW BUS Warm Storage Facility

**LOCATION:** Utqiagvik

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

A warm storage facility will provide much-needed storage for BUS equipment.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will expand facilities but will decrease the costs of maintaining a large number of vehicles and equipment that is currently stored outside.

C. Indicate if this is a reoccurring upgrade or repair.

This is not a recurring upgrade.

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** BRW BUS Warm Storage Facility

**LOCATION:** Utqiagvik

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date: 2013-04 BUS Warm Storage Facility

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Brett Goodwin, Water & Sewer Division Manager	
Signature:		Date:
Department Director Name: Scott Danner, Public Works Director		
Department Director Signature:		Date: 3.2.20

---

---

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Wainwright Power Plant design Phase I

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-NEW-2

TYPE: NEW

DATE SUBMITTED: 3/4/2020

AMOUNT REQUESTED: \$2,000,000

REQUESTING ENTITY: Public Works / Power Generation & Distribution

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works / Power Generation & Distribution

**2. PROJECT NAME:** Wainwright Power Plant design Phase I

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Design Phase will address the following:

Upgrade the automated controls, cooling and exhaust systems; replace the Direct Digital Control System (DDC) with a programmable logic control system (PLC), and human machine interface panels (HMI); replace new motor control center (MCC) which allows variable frequency drive motors to communicate with the new PLC system; Facility expansion request to accommodate new cooling system to maximize efficiencies and decrease emissions other equipment upgrades and priorities to be established by Public Works/Power Generation & Distribution Division as the work processes.

Replace existing switchgear with new.

---

**4. PROJECT LOCATION:**

Wainwright

**PROJECT NAME:** Wainwright Power Plant design Phase I  
**LOCATION:** Wainwright

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$2,000,000.00

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Power Plant Upgrade Design	Historical knowledge: KAK Power Plant Upgrades	\$ 1,500,000.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)	10%		\$ 200,000.00
<b>Contingency</b> (if not included in other line items)	15%		\$ 300,000.00
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 2,000,000.00
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Project could be phased: Phase I - Design, Phase II - Construction

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

Phase I - \$2,000,000.00

Phase II - To Be Determined

**PROJECT NAME:** Wainwright Power Plant design Phase I

**LOCATION:** Wainwright

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project isn't scheduled for replacement in 2018 because this is a phased project and requires design to commence first

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Wainwright's Power Plant is the oldest of the North Slope villages, requiring an entire upgrade throughout, in order to perform reliably, generating continuous power for the village, it's residents and facilities. These upgrades are sure to provide efficient operations with upgraded cooling and exhaust systems as well as decreasing emissions. Standardization of control systems area wide would include this upgrade, increasing vendor supported parts/materials availability and decreasing variety of inventory for incompatible systems.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

N/A

C. Indicate if this is a reoccurring upgrade or repair.

Upgrade

D. Detail outside funds being leveraged, if applicable.

No outside funds are being leveraged

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Wainwright Power Plant design Phase I

**LOCATION:** Wainwright

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

This project will reduce maintenance costs by reducing engine failures which require immediate response of staff and operational funds for maintenance materials.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Kristopher Kolodziej, Power System Manager
Signature:	Date:
Department Director Name:	
Department Director Signature:	Date:

 3.4.20

---

---

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Condenser Room Temperature Controls Upgrade  
**LOCATION:**

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-NEW-3      TYPE: NEW  
DATE SUBMITTED: 2/13/2020      AMOUNT REQUESTED: \$58,000 All though LOI  
REQUESTING ENTITY: Police Department      AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Police Department

**2. PROJECT NAME:** Condenser Room Temperature Controls Upgrade

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Borough has an A/C and Humidifer system installed in the Communications Equipment Room at the Police Department.  
This critical system is mandatory and a "must have" as it maintains the environment of the Communications Equipment Room.  
Equipment located in the equipment room is Radio System, the Vesta E911 call taking system, Voice Logging recorder system, Camera system and supporting equipment.  
It is critical to maintain the correct environment for these systems as excessive high or low temp can be damaging to this very important life saving equipment and also expensive equipment.  
The condenser unit is located in the Condensing unit room (the boiler room) . It has been determined that the temperature of the boiler room needs to be maintained at temperatures between 60'and 80' F.  
If the boiler room temperatures go out of this range, the AC system will shut down. I have contacted the manufacturer of this AC equipment and spoke several times with the Senior Engineer and have been told that this operating range is normal for this system. if Temperatures drop below 60' F. the system will shut down on low pressure. If room temperatures go above 80' the system will shut down on high pressure. We need a way to control the temperature in this condensing unit/ Boiler room.

**4. PROJECT LOCATION:**

This project will be located at the Police Department facility at 1068 Kiogak st. in Barrow.

PROJECT NAME: Condenser Room Temperature Controls Upgrade

LOCATION:

5. **DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

6. **PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	provision and installation of cooling exhaust fan and controls, and inetegrate into DDC system	vendor quote	\$ 47,840.00
<b>Construction / Acquisition</b> (anticipated costs)			\$
<b>Administration</b> (NSB project management)			\$
<b>Contingency</b> (if not included in other line items)	20 % contingency		\$ 9568.00
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 57408.00
<b>TOTAL PROJECT COST (if different)</b>			\$

7. **WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

I would like to get this project completed before the summer months and hope a deficit spend can be executed.

8. **PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

Project cannot be phased

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Condenser Room Temperature Controls Upgrade

**LOCATION:**

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Police Department personnel have been dealing with this AC issue for years, it has finally been determined why we have been having issues with the AC. It has recently been determined that this AC system has been shutting down because of low or high temperatures in the condensing room.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

It is critical the the communications equipment located in the Communication Room be maintained at the proper temperature and humidity.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will make it possible for the Communications Systems for the Borough to be in the proper operating environment and minimize the risk of a communications outage.

C. Indicate if this is a reoccurring upgrade or repair.

this will not be a reoccurring project

D. Detail outside funds being leveraged, if applicable.

None

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

It is critical that the Borough take a plan of action and correct this condition

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

there is a possibility that without the proper communication systems in good working order, that the public is at risk.

PROJECT NAME: Condenser Room Temperature Controls Upgrade

LOCATION:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

[Empty box for explanation]

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

[Empty box for explanation]

12. PROJECT ANALYSIS REPORT (PAR) STATUS: Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

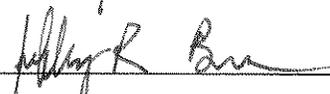
13. ATTACHMENTS: List any supplemental information submitted with this request.

Vendor Quote

14. ADDITIONAL INFORMATION: Include any pertinent information not requested elsewhere.

[Empty box for additional information]

15. REQUESTOR INFORMATION:

Requestor Name and Title:	DARREL LOVE	
Signature:		Date: 2-6-2020
Department Director Name:	Jeffrey R. Brown	
Department Director Signature:		Date: 6 FEB 2020

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**Quality Controls, Inc.**

P.O. Box 221461

**Proposal**

Anchorage, AK 99522

Phone: (907) 868-7931 - Fax: (907) 349-1212

Customer #	Estimate Date	Estimate #
1180	7/23/2019	602079

**Bill To:**

North Slope Borough  
PO Box 69  
  
Barrow, AK 99723

**Service Location:**

Barrow Police Department  
  
Barrow, AK

**Contract Details**

North Slope Borough, Barrow Police Department: This proposal is for the provision and installation of a ventilation fan and ductwork to provide cooling for the boiler room and equipment located in boiler room. This proposal includes:

Cutting and capping of glycol heating lines, and demolition of existing heating coil which tempers the combustion air entering the room (this coil is plugged and does not allow air through it);

Installation of new vent fan, dampers, ductwork and intake louver;

Installation of new electrical circuit and controls to provide power and control of new fan;

Integration of new points into existing control panel and modifying system graphics.

	Subtotal:	\$47,840.00		
	Sales Tax:	\$0.00		
	<b>Estimate Total:</b>	<b>\$47,840.00</b>		
	Retainage held until job completion:			
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">                 _____                  Representative Signature      Date             </td> <td style="width: 50%; text-align: center;">                 _____                  Customer Signature      Date             </td> </tr> </table>			_____ Representative Signature      Date	_____ Customer Signature      Date
_____ Representative Signature      Date	_____ Customer Signature      Date			



**PROJECT NAME:** New AKP Public Works Building Replacement

**LOCATION:** Anaktuvuk Pass, Ak

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~18-NEW-4~~ **New 18-NEW-4** TYPE: **NEW**

DATE SUBMITTED: 3/10/2020

AMOUNT REQUESTED: \$30,000,000

REQUESTING ENTITY: Department of Public Works

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# **CIP PROJECT REQUEST FORM**

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via Inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Department of Public Works

**2. PROJECT NAME:** New AKP Public Works Building Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

AKP is in need of more storage space for equipment and office space for staff. Currently Public Works is housing Office staff inside the Itinerant Quarters and all Public Works employees meet at the O&M Shop for daily meetings. This Building would be in replacement of the USDW.

**4. PROJECT LOCATION:**

Barrow, Ak

---

**PROJECT NAME:** New AKP Public Works Building Replacement  
**LOCATION:** Anaktuvuk Pass, Ak

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$10,000,000

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	A/E Design Fee/Prof. Service		\$ 3,000,000
<b>Construction / Acquisition</b> (anticipated costs)			\$ 6,000,000
<b>Administration</b> (NSB project management)	10%		\$ 1,000,000
<b>Contingency</b> (if not included in other line items)	10%		\$ 1,000,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 10,000,000
<b>TOTAL PROJECT COST (if different)</b>			\$ 30,000,000

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** New AKP Public Works Building Replacement

**LOCATION:** Anaktuvuk Pass, Ak

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

---

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

---

C. Indicate if this is a reoccurring upgrade or repair.

---

D. Detail outside funds being leveraged, if applicable.

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

---

**PROJECT NAME:** New AKP Public Works Building Replacement  
**LOCATION:** Anaktuvuk Pass, Ak

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)  
Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?  
 No  Yes (If yes, include written verification)  
Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?  
 No  Yes If yes, indicate PAR name and date:  
Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, Department of Public Works, RA&S Division Manager		
Signature:		Date:	3/10/20
Department Director Name: Scott K. Danner, Director, Department of Public Works			
Department Director Signature:		Date:	3.10.20

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** Nui Pw's/Maintenance/Warm Storage Replacement

**LOCATION:** Nuiqsut

*NSB PLANNING DEPARTMENT USE ONLY*

TEMPORARY/CIP PROJECT NUMBER: 18-NEW-5 TYPE: NEW

DATE SUBMITTED: 3/10/2020

AMOUNT REQUESTED: ~~10,996,000.00~~ \$10,996,000

REQUESTING ENTITY: PUBLIC WORKS

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** PUBLIC WORKS

**2. PROJECT NAME:** Nui Pw's/Maintenance/Warm Storage Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This Project includes the design (possibly us BGF Operations, or KAK/PIZ PW's building design) and construction of New Maintenance/Warm Storage Facility in Nuiqsut. This project includes the demolition of the existing USDW Shop and site remediation/Improvements. The facility will be in addition to the existing Heavy Duty Equipment Warm Storage Facility, and will incorporate space for airports snow removal equipment.

a PAR request is being submitter to analyze the feasibility of a NSB Multi Use facility, in which all NSB operating entitles could share one building. This may supersede the request.

---

**4. PROJECT LOCATION:**

Nuiqsut

**PROJECT NAME:** Nui Pw's/Maintenance/Warm Storage Replacement

**LOCATION:** Nuiqsut

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$10,996,000.00

Cost determined from expenditures of the recently demolished USDW and newly designed & Constructed facility in kaktovik, 18-064, with consideration of 20%

**6.PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Possibly utilize other NSB building design	Prior year's estimate + 10%	\$ 700,000
<b>Construction / Acquisition</b> (anticipated costs)	Demo/site rem/construction	Prior year's estimate + 10%	\$ 8,800,000
<b>Administration</b> (NSB project management)	Estimate 10% of construction	Prior year's estimate + 10%	\$ 880,000
<b>Contingency</b> (if not included in other line items)	Estimate	Prior year's estimate + 10%	\$ 616,000
<b>Other Costs</b> (with description)	Cost derived from similar project in Kaktovik + 10%		\$
<b>TOTAL</b>			\$ 10,996,000
<b>TOTAL PROJECT COST (if different)</b>			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

It's not recommended that this project be phased. This facility is vital to the community, and time needed to replace should be minimized.

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

N/A

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** Nui Pw's/Maintenance/Warm Storage Replacement

**LOCATION:** Nuiqsut

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

---

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The substructure/floor of the existing facility has failed. an dis currently under restricted use. The demolition of the existing USDW facility will proved a location for new Maintenance/Warm Storage Facility adjacent to the existing Heavy Duty Equipment Warm Storage. The proposed facility, which will be near the airport, will include space for airport snow removal equipment is needed to reduce costs of maintenance and repair of heavy equipment used to maintain vital services functions in nuiqsut.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

O&M costs will be reduced by having a more efficient, safe, and multi-use storage facility. Warm Storage for the NSB and Airport snow removal equipment will extend the life of that equipment. The new facility will be constructed at the same location and will use the existing roadways, pad and utilities.

C. Indicate if this is a reoccurring upgrade or repair.

N/A

D. Detail outside funds being leveraged, if applicable.

It may be possible to seek FAA funding (as in other villages). When the facility is used for trucks or heavy equipment.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

The facility sub-structure has failed. The equipment bay is currently not to be used for trucks and heavy equipment.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Copy not available.

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

**PROJECT NAME:** Nui Pw's/Maintenance/Warm Storage Replacement

**LOCATION:** Nuiqsut

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frank, PAR's Division Manager		
Signature:		Date:	3/10/20
Department Director Name:		Date:	3-10-20
Department Director Signature:		Date:	

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** New Light Duty Shop 1 and Heavy Equipment Shop 2

**LOCATION:** Barrow, Ak

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: ~~New~~ 18-NEW-6 TYPE: NEW

DATE SUBMITTED: 3/10/2020

AMOUNT REQUESTED: ~~7,020,303.40~~ \$7,021,000

REQUESTING ENTITY: Public Works

AMOUNT RECOMMENDED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

---

---

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works

**2. PROJECT NAME:** New Light Duty Shop 1 and Heavy Equipment Shop 2

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The Existing Shop 1 and 2 structure was built in the early 80's. The facility was built to accommodate the small number of the fleet that the NSB had during that time.

Since then, The NSB fleet has grown to three times more than it was in the 80's. The size of shop 1 and 2 has restricted our Operations and resulted in additional challenges in providing services to the NSB departments in an efficient manner.

Additionally, The structure was built with consideration to the available technology at the time. The technology available for Light Duty and Heavy Duty work now has significantly advanced since then. With a new state-of-the art facility, Light and heavy Duty work would be able to take full advantage of available technological advances in the field.

Lastly the current facilities does not have a wash reclamation bay. This presents a safety health hazard to the public and could lead to a potential violation (NOV) from ADEC for not being compliant with the "Clean Water Act".

**4. PROJECT LOCATION:**

Barrow, Ak

---

**PROJECT NAME:** New Light Duty Shop 1 and Heavy Equipment Shop 2  
**LOCATION:** Barrow, Ak

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

\$6,382,094 for professional service for the Design and \$638,209.40 for project management = \$7,020,303.40

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)		PAR Estimate	\$ 198,700.00
<b>Professional Services</b> (Design, legal, other)	A/E Design Fee/Prof. Service	PAR Estimate	\$ 6382,094.00
<b>Construction / Acquisition</b> (anticipated costs)		PAR Estimate	\$ 67,676,776.00
<b>Administration</b> (NSB project management)	10%	PAR Estimate	\$ 6,382,094.00
<b>Contingency</b> (if not included in other line items)	This is included on PAR	PAR Estimate	\$ 10,011,909.00
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$ 90,651,573
<b>TOTAL PROJECT COST</b> (if different)			\$

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes  
 If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number:

A. If this is a new request, indicate below whether this project could be phased and over how many years.

N/A

B. If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

C. If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

**PROJECT NAME:** New Light Duty Shop 1 and Heavy Equipment Shop 2

**LOCATION:** Barrow, Ak

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

Outdated structure; no longer a viable source of light duty and heavy equipment needs and a potentially unsafe work environment for employees. Facility was built in the early 80's and the NSB has grown.

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

---

---

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Old facility may be used in a different capacity with reduced operational costs. New Facility will reduce over-all costs by an increase in efficiency, minimizing maintenance required and extending light and heavy duty equipment longevity.

C. Indicate if this is a reoccurring upgrade or repair.

Past funding has gone into maintaining building and replacing outdated components; such as boilers, roof, garage doors, flooring, etc.

D. Detail outside funds being leveraged, if applicable.

---

---

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

---

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

---

---

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Coastal erosion and future storms could threaten current infrastructure.

**PROJECT NAME:** New Light Duty Shop 1 and Heavy Equipment Shop 2

**LOCATION:** Barrow, Ak

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

A risk assessment should be conducted prior to approval.

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Efficiency and modernizational upgrade will an should reduce future operating costs.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

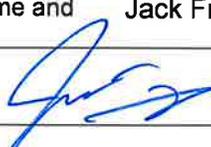
No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Jack Frantz, Deputy Director, Department of Public Works
Signature:	 Date: 3/10/20
Department Director Name:	Scott K. Danner, Director, Department of Public Works
Department Director Signature:	 Date: 3-10-20

*Planning Department Use Only*

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

**PROJECT NAME:** JD Edwards Upgrade Phase 4

**LOCATION:** Utqiagvik (Barrow)

NSB PLANNING DEPARTMENT USE ONLY

TEMPORARY/CIP PROJECT NUMBER: 22-025

TYPE: Upfund

DATE SUBMITTED: 2/3/2020

AMOUNT REQUESTED: \$620,000

REQUESTING ENTITY: Administration and Finance MIS Division

AMOUNT RECOMMENDED:

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

# CIP PROJECT REQUEST FORM

Use this form for all project requests except equipment and/or vehicle purchase or replacement

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Administration and Finance MIS Division

**2. PROJECT NAME:** JD Edwards Upgrade Phase 4

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project will take place in Utqiagvik for the benefit of SA10 and all the North Slope Borough (NSB). Purpose: re-license two previously owned JD Edwards World Software suites from Oracle, analyze current NSB business processes and software installation (AS-IS), perform future needs analysis (TO-BE), perform mapping analysis between AS-IS and TO-BE (GAP), install missing JDE software modules, and provide training for newly installed modules that will reduce manual journal entries and accounting errors caused by non-centralized accounting systems.

When NSB reinstated a license for JDE Software, we did not re-license two software suites: Project Management and Manufacturing Management. Nor did NSB implement the following software modules: Accounts Receivables, Sales Order Management, Inventory Management, and Fixed Assets Management. The absence of these modules cause manual journal entries into the General Ledger (GL) plus lack of visibility on accounts receivable to NSB. Also, SA10, Planning, and Health has need for Real Estate Management (which is included in Project Management suite) to track and bill leases and other property transactions. Manufacturing Management would allow NSB to consolidate Inventory Management with work orders, and property, plant, and equipment maintenance. Which will provide better financial oversight to the Accounting Department for these valuable resources.

This will be accomplished in five Phases: Phase 1 has been completed with the purchase of new software licenses, AS-IS, TO-BE, and GAP analysis; Phase 2 is complete and Phase 3 is nearing completion with the implementation of Enterprise One (E1) software on April 22, 2019 and continuation of implementing additional business functions within E1; Phase 4 will continue address improvements to E1; and Phase 5 will finish the NSB desired business function implementations in E1.

**4. PROJECT LOCATION:**

Utqiagvik

**PROJECT NAME:**

**LOCATION:**

**5. DOLLAR \$ AMOUNT OF THIS REQUEST:** Indicate the dollar \$ amount with a breakdown of anticipated expenditure for this funding cycle only. This amount should include the PAR cost if applicable, this year's expenditure estimate, administrative estimate and contingency.

Professional Services: \$500,000
Administration: \$62,000
Contingency: \$58,000
<b>Total: \$620,000</b>

**6. PROJECT COST:** Complete the project cost table below as completely as possible.

Item	Description	Source of Cost (actual cost, PAR estimate, vendor quote)	Cost
<b>Recoverable Pre-Project Costs</b> (PAR, other studies or reports, etc.)			\$
<b>Professional Services</b> (Design, legal, other)	Software Implementations 4,800 hours at \$250/hr		\$ 1,200,000
<b>Construction / Acquisition</b> (anticipated costs)	Software Purchase	Vendor Quote	\$ 1,375,000
<b>Administration</b> (NSB project management)			\$ 475,000
<b>Contingency</b> (if not included in other line items)			\$ 400,000
<b>Other Costs</b> (with description)			\$
<b>TOTAL</b>			\$
<b>TOTAL PROJECT COST</b> (if different)			\$ 3,450,000

**7. WILL ALL OR A PORTION OF FUNDING BE NEEDED BEFORE NOVEMBER 2020?**  No  Yes

If yes, please identify how much will be needed prior to November 2020 and justify why it will be needed.

**8. PROJECT PHASING OR UPFUND:**

Is this a phased project or a follow-up to an existing CIP project?  No  Yes

If yes, indicate name and CIP project number: 22\_025 CIPM# 72-025

**A.** If this is a new request, indicate below whether this project could be phased and over how many years.

Phase 1: \$840,000; Phase 2 \$750,000; Phase 3 \$620,000; Phase 4 \$620,000; Phase 5; \$620,000  
 Started 2015 and should be completed by 2025.

**B.** If this request is for an areawide project, provide an estimated cost break down for how much will be spent at each site.

**C.** If this request is a phased project, indicate how much will be needed this year and in future years to complete the project.

2020 Phase 4: \$620,000  
 2023 Phase 5 \$620,000

**PROJECT NAME:**

**LOCATION:**

**9. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  No  Yes

If No, explain why it should be considered out of sequence:

This project was funded in 2015 as a software implementation of standard JD Edwards World functions to help standardize accounting processes, to reduce manual GL entries, to better control NSB's finances and reports. This process is moving along with the most recent implementation of JD Edwards EnterpriseOne (E1).

**10. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Currently over 700 manual GL entries occur each year because of departmental use of spreadsheets and other accounting software to record income and expenditures causing high cost with high probability of errors and adding additional costs to fix the errors. JDE E1 has the ability to substantially reduce manual GL entries, if planned modules are implemented. This project will provide the necessary funding for continuing licensing, implementation, and training of E1 modules.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project will help increase the ability to collect revenues owed NSB and reduce costs associated with labor intensive accounting procedures.

C. Indicate if this is a reoccurring upgrade or repair.

D. Detail outside funds being leveraged, if applicable.

**11. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

But we are under licensed for the number of NSB employees being employed by the Borough. This has been taken care of in PHASE 3.

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:**

**LOCATION:**

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

[Empty box for explanation]

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Reduce costs by automating GL entries, reduce err within the accounting system, increase compliance with faster data entry and more systems reporting.

**12. PROJECT ANALYSIS REPORT (PAR) STATUS:** Has a PAR for this project been completed?

No  Yes If yes, indicate PAR name and date:

Attach a copy of an executive summary, if possible

**13. ATTACHMENTS:** List any supplemental information submitted with this request.

[Empty box for attachments]

**14. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

[Empty box for additional information]

**15. REQUESTOR INFORMATION:**

Requestor Name and Title:	Rockie Nethercott, Systems Administrator	
Signature:	<i>Rockie Nethercott</i>	Date: 2/3/2020
Department Director Name:		
Department Director Signature:	Date:	

Planning Department Use Only

Summary of PRC / Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)

PARR MASTER LOG

3/12/2020

PARR INDEX	Location of Analysis	Project Analysis Reports Requested PARR TITLE	Requesting Department	Date Submitted	Approved By PRC	PAR INDEX	Check Complete / Comments
2015-A	AW	AW Small Fuel Tank Compliance	PW	2/25/2015	4/1/2015	2015-01	
2015-B	BRW	BRW Health Gathering Place Renovation	HEALTH	3/5/2015	resubmit		confirm NSB ownership & resubmit
2015-C	PHO	PHO Health Clinic Renovation	HEALTH	3/5/2015	4/1/2015	2015-02	PAR 2015-02 PHO Health Clinic 07.17.2016
2015-D	BRW	BRW Veterinary Clinic Renovation	HEALTH	3/5/2015	4/1/2015	2015-03	
2015-E	BRW	BRW Wellness Center Renovation	HEALTH	3/5/2015	8/6/2015	2015-14	
2015-F	BRW	Ilisagvik Browerville Center Expansion	Ilisagvik	3/5/2015	4/1/2015	2015-04	
2015-G	AKP	AKP Second Drinking Water Well	W/S	3/5/2015	4/1/2015	2015-05	
2015-H	PIZ	AW WWTP Upgrades for Septage Waste	W/S	3/5/2015	4/1/2015	2015-06	
2015-I	PHO / PIZ	Fresh Water Source Investigation	W/S	3/5/2015	4/1/2015	2015-07	
2015-J	BRW	BGF Backup Generator and Electrical Upgrade	Gasfields	3/5/2015	not approved		
2015-K	BRW	BGF South Field Well House Upgrades	Gasfields	3/5/2015	4/1/2015	2015-08	
2015-L	BRW	BGF Walakpa Generator Upgrades	Gasfields	3/5/2015	4/1/2015	2015-09	
2015-M	BRW	BGF Walakpa Pipeline Crossing Repairs	Gasfields	3/5/2015	not approved		
2015-N	BRW	Convert BUS Fuel Tank to BUECI Generation Plant Fuel Tank	Fuels	3/5/2015	not approved		
2015-O	BRW	Barrow Gas Main Transmission Upgrades Analysis	Gasfields	3/5/2015	4/1/2015	2015-10	
2015-P	BRW	Gasfield Road Upgrade	Roads	3/12/2015	4/1/2015	2015-11	
2015-Q	KAK	City Generator Shelter	CityKAK	3/12/2015	4/1/2015	2015-12.1	
2015-R	KAK	Multipurpose Facility	CityKAK	3/12/2015	4/1/2015	2015-12.2	
2015-S	KAK	Teen Center	CityKAK	3/12/2015	4/1/2015	2015-12.3	
2015-T	BRW	BRW B.U.S. SCADA Monitoring	W/S	3/20/2015	4/1/2015	2015-13	
2015-U	AIN/KAK	AIN & KAK Clinic Fire Escapes	Health/CIPM	7/1/2015	8/6/2015	2015-15	
2016-A	BRW	New Public Safety Facilities	PSO	2/23/2016	5/18/2016	2016-01	offer site options
2016-B	BRW	New Behavioral Health Facility	Health	2/26/2016	5/18/2016	2016-02	synergy with 2016-01
2016-C	BRW	Gas Field Southfield Well One Pipeline	Gasfields	2/26/2016	not approved	-	Public Works develop in-house
2016-D	BRW	Gas Field Walakpa Pig Launcher/Receiver	Gasfields	2/26/2016	5/18/2016	2016-03	specialized consultant
2016-E	BRW	Matsutani Center Improvements	Health	2/26/2016	not approved	-	forward to Public Works M&O
2016-F	BRW	B.U.S. Diesel Tank Conversion	BUECI	3/1/2016			tabled lack of representation
2016-G	BRW	Nunavaak Road Utility Extension	City of Barrow	3/25/2016	8/4/2016	2016-04	
2016-H	BRW	BHS HMS Traffic Signals	NSBSD	11/14/2016	approved	2016-05	
2016-I	AW	NSBSD Districtwide Mechanical-Electrical Upgrades	NSBSD	11/14/2016	approved	2016-06	
2016-J	AW	Health Clinic ramp re-alignment and level grade	Health/CHAP	11/29/2016	approved	2016-07	

PARR MASTER LOG

3/12/2020

PARR INDEX	Location of Analysis	Project Analysis Reports Requested PARR TITLE	Requesting Department	Date Submitted	Approved By PRC	PAR INDEX	Check Complete / Comments
2017-A	PHO	Point Hope Clinic Flooring	Health/CHAP	2/28/2017	approved	2017-01	
2017-B	AW	Fire Department Security Upgrade	Fire	3/7/2017	approved	2017-02	
2017-C	BRW	Sober Living Home	Health	3/7/2017	approved	2017-03	
2017-D	BRW	Flare Blowdown Capacity Study and Upgrades	Gasfields	3/14/2017	approved	2017-04	
2017-F	BRW	Barrow Gas Main Transmission Upgrades Analysis	Gasfields	3/14/2017	approved	2017-05	
2017-G	BRW	Walakpa Pipeline Crossing Repairs	Gasfields	3/14/2017	approved	2017-06	
2017-H	BRW	Barrow High School Life Safety Upgrades	NSBSD	3/29/2017	approved	2017-07	
2017-I	PHO	NEW PHO Health Clinic	Health	3/29/2017	approved	2017-08	
2018-A	PHO	Curriculum Space Renovations and Ed Space Development	NSBSD	3/1/2018	approved	2018-01	
2018-B	AW	AW Water & Sewer Chemical Storage	PW	3/1/2018	approved	2018-02	
2018-C	BGF	BRW Gas Field ESD and SIS Systems	PW	2/28/2018	approved	2018-03	
2018-D	BGF	East Field Liquids Disposal Flare BGF East Field	PW	3/1/2018	approved	2018-04	
2018-E	BRW	Pumphouse Enclosure for BRW Bulk Tank Farm Facility	PW	2/28/2018	approved	2018-05	
2018-F	BGF	South Field Vertical Support Member Replacement	PW	2/28/2018	not approved		PW's Ops
2018-G	BRW	CYS Expansion	Health	2/28/2018	approved	2018-06	
2018-H	AKP	AKP New Subdivision	City of AKP	3/10/2018	approved	2018-07	
2018-I	AIN	AIN Tupkak Bar Access Road	City of AIN	3/8/2018	approved	2018-08	
2018-J	AIN	Wainwright Drainage Study	City of AIN	3/7/2018	approved	2018-09	
2018-K	ATQ	Atqasuk Natural Gas Development	City of ATQ	3/9/2018	approved	2018-10	
2018-L	AW	Areawide Hydrant	Fire	3/13/2018	not approved		GIS/FIRE
2018-M	AIN	AIN Seawall	city of AIN	3/23/2018	approved	2018-11	
2018-N	KAK	KAK New S&R	city of KAK	3/23/2018	approved	2018-12	
2018-O	PHO	NSB structural integrity	city of PHO	3/23/2018	not approved		Housing Dept
2018-P	KAK	Kaktovik Museum	city of KAK	3/23/2018	not approved		
2019-A	BGF	Barrow Gas Field ESD & SIS Systems	PW	2/7/2019			
2019-B	BGF	East Field Liquids Disposal Flare	PW	2/7/2019			
2020-A	ATQ	Atqasuk Fire Station Replacement	Fire	3/4/2020			
2020-B	BRW	BWR Fire Stations HVAC System Upgrades	Fire	3/4/2020			
2020-C	BRW	IHLC Floor Improvement	IHLC	3/4/2020			
2020-D	NUI	Nuiqsut Fire Station Replacement	Fire	3/4/2020			
2020-E	PHO	Pt. Hope Fire Station Replacement	Fire	3/4/2020			
2020-F	AIN	Teacher Storage Structure	NSBSD	3/4/2020			
2020-G	ATQ,KAK,NUI,AIN	Village Culvert Assessment	PW	3/4/2020			
2020-H	AIN	Wainwright Fire Station Replacement	Fire	3/4/2020			

**PROJECT NAME:** Atqasuk Fire Station Replacement

**LOCATION:** Atqasuk

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR 2020-A

REQUESTING ENTITY: Fire Department

DATE SUBMITTED: 3/4/2020

APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Fire Department

**2. PROJECT NAME:** Atqasuk Fire Station Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Atqasuk Fire Station. The current infrastructure is deteriorating, causing an unsafe workplace environment for our staff. The flooring in the Chief's office is coming apart and the plywood is lifting throughout. The heating in the building is failing, causing our staff to have to work in extremely cold temperatures; the Air Handling Unit is inoperable, and has been since 2013; Boiler #2 has been down since 2018; zone valves throughout the facility which affect heating need to be replaced. Garage bays have do not have heat, and our staff are attempting to keep it warm using an electric heater. These are among the more serious issues, though there other items that need attention, including: broken windows taped shut by Public Works in the Chief's office and laundry room; manual door pull on garage bay doors in operable, in the event the electric system fails; circulating pumps and air compressor in the boiler room inoperable. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.

**PROJECT NAME:** Atqasuk Fire Station Replacement

**LOCATION:** Atqasuk

**4. PROJECT LOCATION:**

Atqasuk, Alaska.

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  Yes  No

If No, explain why it should be considered out of sequence:

**6. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

C. Indicate if this is a reoccurring upgrade or repair.

No.

D. Detail outside funds being leveraged, if applicable.

N/A.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Atqasuk Fire Station Replacement

**LOCATION:** Atqasuk

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature:

Date:

Department Director Name: Lloyd Kanayurak

Department Director Signature:

Date:

 2/19/2020

---

---

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** Barrow & Browerville Fire Station HVAC System Upgrades

**LOCATION:** Barrow

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR 2020-B

REQUESTING ENTITY: North Slope Borough Fire Department

DATE SUBMITTED: 3/4/2020

APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. **Complete this form electronically.**
2. **Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
3. **Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** North Slope Borough Fire Department

**2. PROJECT NAME:** Barrow & Browerville Fire Station HVAC System Upgrades

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is designed to replace the existing HVAC system in the Barrow and Browerville Fire Stations. The existing controls in our facilities are very old and obsolete, and many of them non-functional, which is causing temperature and air quality problems in the working and living spaces throughout the building. Items in this project include: Upgrade of controls on AHU-1 and AHU-2; Upgrade on controls on Heating System; Upgrade on controls for 11 VAV boxes and 16 baseboard/radiant panel heating zones; Upgrade of controls for vehicle bays; Upgrade of controls for generator room cooling and boiler room cooling; Installation of new HVAC Web Server, which will be tied to the NSB network and allows for remote access management and monitoring, and remote alarm notifications; Installation of new cooling unit for the server room, which currently has a transfer fan but no mechanical cooling, causing server room computer equipment to overheat. The project also includes control system as-built and training.

**PROJECT NAME:** Barrow & Browerville Fire Station HVAC System Upgrades

**LOCATION:** Barrow

**4. PROJECT LOCATION:**

Barrow and Browerville Fire Stations in Barrow, Alaska.

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  Yes  No

If No, explain why it should be considered out of sequence:

N/A

**6. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

The importance of functioning controls & HVAC system in commercial buildings cannot be overemphasized. Fresh air is essential to the body and in commercial buildings, it helps produce productivity, reduces the number of pollutants, bacteria & odor in the facility. It also promotes energy efficiency & improves air quality. The failing heating & HVAC system in our facility has created a sub-standard work environment in regards to air quality and temperature controls.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

C. Indicate if this is a reoccurring upgrade or repair.

No.

D. Detail outside funds being leveraged, if applicable.

N/A.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Diagnosis of controls and HVAC system issues was done by a licensed professional.

**PROJECT NAME:** Barrow & Browerville Fire Station HVAC System Upgrades

**LOCATION:** Barrow

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature:

Date:

Department Director Name: Lloyd Kanayurak

Department Director Signature:

 Date: 2/19/2020

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** IHLC Floor Improvement  
**LOCATION:** Inupiat Heritage Center

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR 2020-C  
DATE SUBMITTED: 3/4/2020

REQUESTING ENTITY: IHLC Department  
APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. **Complete this form electronically.**
2. **Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
3. **Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** IHLC Department

**2. PROJECT NAME:** IHLC Floor Improvement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Since the opening of the Heritage Center in 1999, there has been a lot of traffic and use of the center for meetings, conferences, dinners, parties and cultural gatherings. The main floor when you walk is worn out and looking like a well used garage. The carpet in the Multipurpose rooms is also beyond stain repair and needs to be changed out to another carpet or a commercial grade hard floor.

People visit the Heritage Center during the summer which are our busiest months and the Tundra Tours tourist program held 7 days a week, May 15th through September 15th. This is when the tourist can watch and participate in a demonstration of Aggï and nalukataq. After the program, you will find many of the local artists selling their arts and crafts in the qargi area. Although the tourist season ends, the Heritage Center continues to get a broad range of tourist from all over the world. From our September 2019 Statistics, we had a total of 1645 visitors just for that month and the monthly numbers are give or take from that number.

The IHLC Education program also kicks in during the school year to host many different classes for fields trips from our local schools.

**PROJECT NAME:** IHLC Floor Improvement  
**LOCATION:** Inupiat Heritage Center

**4. PROJECT LOCATION:**

Inupiat Heritage Center

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes  
If Yes, is it scheduled for replacement before 2025?  Yes  No  
If No, explain why it should be considered out of sequence:

**6. PROJECT JUSTIFICATION: Explain why this project is necessary.**

**A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.**

The Center has had no upgrades since its opening in 1999. We have a lot of wear and tear in many areas but our floor for safety purposes needs the most improvement and/or replacement.

**B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.**

There will be no increased operating or maintenance costs in this project. There will be more safety issues resolved.

**C. Indicate if this is a reoccurring upgrade or repair.**

No, once the upgrade and/or repair happens, the center should be good for another 20+ years with the current improvements needed.

**D. Detail outside funds being leveraged, if applicable.**

n/a

**7. Please respond to the following questions:**

**A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?**  No  Yes (If yes, include written verification)

Explanation, if necessary:

**B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?**  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** IHLC Floor Improvement

**LOCATION:** Inupiat Heritage Center

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include written verification)

Explanation, if necessary:

It could if our carpet in our Multipurpose room was ever tested.

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include written verification)

Explanation, if necessary:

It could help with a cut down on cleaning maintaining floor.

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

With this upgrade, tourist might talk about coming back to our beautified facility.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Dorothy Edwardsen, Deputy Director

Signature:



Date:

1/27/2020

Department Director Name:

Colleen Atpiik-Lemen

Department Director Signature:



Date:

01/27/2020

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** Nuiqsut Fire Station Replacement

**LOCATION:** Nuiqsut

NSB PLANNING DEPARTMENT USE ONLY

PAR REQUEST NUMBER: PAR 2020-D

REQUESTING ENTITY: Fire Department

DATE SUBMITTED: 3/4/2020

APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. **Complete this form electronically.**
2. **Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
3. **Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Fire Department

**2. PROJECT NAME:** Nuiqsut Fire Station Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Nuiqsut Fire Station. The current infrastructure is rapidly deteriorating, causing an unsafe workplace environment for our staff. The flooring throughout the facility is failing; the original floors were covered with plywood in order to cover up asbestos, however the plywood is now starting to fall apart. The trench drain in one of our garage bays is not working, the sump pump is broken and will not drain; we are currently using a utility pump to empty the trench. The windows throughout the building are inoperable, some even screwed shut. The heating system is declining so the heat in the building is inconsistent, and our staff is normally working in cold temperatures. Exterior doors need to be replaced; the front entry door freezes shut during the winter, and the back exterior is not properly aligned with it's frame, causing it to become stuck and making it difficult to open and close. The overhead heaters in the garage bays need to be replaced; the fans are constantly loud and noisy due to wear and tear over the years, and most don't give out much heat; the overhead heater in our tank room only blows cold air. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.

**PROJECT NAME:** Nuiqsut Fire Station Replacement

**LOCATION:** Nuiqsut

**4. PROJECT LOCATION:**

Nuiqsut, Alaska.

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  Yes  No

If No, explain why it should be considered out of sequence:

**6. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

C. Indicate if this is a reoccurring upgrade or repair.

No.

D. Detail outside funds being leveraged, if applicable.

N/A.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include written verification)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include written verification)

Explanation, if necessary:

**PROJECT NAME:** Nuiqsut Fire Station Replacement

**LOCATION:** Nuiqsut

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature:



Date:

2/21/2020

Department Director Name: Lloyd Kanayurak

Department Director Signature:



Date:

2/21/2020

---

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** Point Hope Fire Station Replacement

**LOCATION:** Point Hope

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR 2020-E

REQUESTING ENTITY: Fire Department

DATE SUBMITTED: 3/4/2020

APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Fire Department

**2. PROJECT NAME:** Point Hope Fire Station Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Point Hope Fire Station. The current infrastructure is rapidly deteriorating, causing an unsafe workplace environment for our staff. The flooring throughout the facility is failing; there are metal screws protruding through floors in the garage bays, and the metal floors itself is bubbling up; restroom floor is ready to collapse from beneath, and our staff is having to carefully walk on the wood beams to ensure they do not fall through; the shower room floor is in the same condition; the training room floors are deteriorating and becoming uneven. All windows in the facility are currently inoperable; none of them open. The roof panels are also inadequate, and water continues to leak into the building. These are among the more serious issues, though there are a multitude of other things that need attention, including: inconsistent heating, interior & exterior doors/locks, garage bay door conditions failing and multiple panels need replacement, interior & exterior lighting is failing, minor mold issues were found in the shower room. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.

**PROJECT NAME:** Point Hope Fire Station Replacement

**LOCATION:** Point Hope

**4. PROJECT LOCATION:**

Point Hope, Alaska.

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  Yes  No

If No, explain why it should be considered out of sequence:

**6. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

C. Indicate if this is a reoccurring upgrade or repair.

No.

D. Detail outside funds being leveraged, if applicable.

N/A.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Point Hope Fire Station Replacement

**LOCATION:** Point Hope

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature:

Date:

Department Director Name: Lloyd Kanayurak

Department Director Signature:

Date:

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** Trencher Storage Structure

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR 2020-F

REQUESTING ENTITY: Public Works Water & Sewer Utility

DATE SUBMITTED: Public Works Water & Sewer

APPROVED:

3/4/2020

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. Complete this form electronically.
2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).
3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.

**Incomplete or unsigned requests are unacceptable and will be returned.**

**1. REQUESTING ENTITY:** Public Works Water & Sewer Utility

**2. PROJECT NAME:** Trencher Storage Structure

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

The request to to identify for storage of the NSB Trencher in a headed indoors space or new fabric structure. The trencher is used for emergency response to W&S work and needs to be readily available for use in winter months. No space exists to house the trencher currently. Warm storage will also reduce wear and tear on the equipment that is not possible when stored outside.

Cold storage of the trencher has led to damage of the tracks and other components rendering the trencher not usable until repaired.

**PROJECT NAME:** Trencher Storage Structure  
**LOCATION:** Wainwright

**4. PROJECT LOCATION:**

Wainwright

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  Yes  No

If No, explain why it should be considered out of sequence:

This PAR will protect an existing asset from repetitive damage.

**6. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Storage of the trencher inside will allow for warm starts, and improved maintenance. The equipment will be available to meet the increased demands for repairs in Wainwright.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

Depending on the recommendation of the PAR, facilities may remain the same or expand. Expansion would be additional O&M costs.

C. Indicate if this is a reoccurring upgrade or repair.

This would be a one time request.

D. Detail outside funds being leveraged, if applicable.

None.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Trencher Storage Structure

**LOCATION:** Wainwright

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title:

Signature:

Date:

Department Director Name:

Department Director Signature:

 Date: 3.2.20

---

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** Village Culvert Assessment

**LOCATION:** ATQ, KAK, NUI, AIN

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR -2020-G

REQUESTING ENTITY: Public Works Village Services

DATE SUBMITTED: 3/4/2020

APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

1. **Complete this form electronically.**
2. **Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
3. **Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker or Allyson Atos.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Public Works Village Services

**2. PROJECT NAME:** Village Culvert Assessment

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

Topography changes over time due to melting and re-forming sub-surface ice features. Culverts which were originally effective and preventing ponding no longer work effectively, and the resulting ponded water accelerates these changes.

This PAR will assess the culvert condition and placement in each identified village. The goal of this PAR will be to identify the top 5 - 8 culverts in need of replacement, relocation, or new installation for each village.

Specific deliverables from this PAR should include:

- a construction cost estimate per village of culvert replacement and relocation needs, accounting for materials already in village.
- schematic plan view of each culvert with annotated existing end elevations, recommended future end elevations, and culvert sizes
- culvert trench detail designed to reduce water movement in each trench

The PAR should use existing topographical data to develop village drainage maps, with survey teams conducting site visits to gather more detailed information on each potential culvert installation/re-installation site.

**PROJECT NAME:** Village Culvert Assessment  
**LOCATION:** ATQ, KAK, NUI, AIN

**4. PROJECT LOCATION:**

ATQ, KAK, NUI, AIN

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2025?  Yes  No

If No, explain why it should be considered out of sequence:

**6. PROJECT JUSTIFICATION:** Explain why this project is necessary.

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

Many existing culverts are no longer effective at reducing ponding in the identified villages. This ponding degrades permafrost, creating substantial problems for building foundations, road infrastructure, and subsurface utilities. This project will provide a plan of attack to use the NSB's internal resources to effectively reduce this problem.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This will expand drainage infrastructure, but should reduce the cost of future major repairs to roads, facilities, and utilities.

C. Indicate if this is a reoccurring upgrade or repair.

This should reoccur every 5 - 10 years to address changing drainage topography.

D. Detail outside funds being leveraged, if applicable.

N/A.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Village Culvert Assessment

**LOCATION:** ATQ, KAK, NUI, AIN

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

Several utility failures have been the result of permafrost degradation from in-village ponding. The cost of several major repairs is included to quantify some potential savings.

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Ken Slatton, Village Services Division Manager

Signature:

Date:

Department Director Name: Scott K. Danner, Public Works Director

Department Director Signature:

Date:

3.2.20

---

---

*Planning Department Use Only*

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)



**PROJECT NAME:** Wainwright Fire Station Replacement

**LOCATION:** Wainwright

*NSB PLANNING DEPARTMENT USE ONLY*

PAR REQUEST NUMBER: PAR 2020-H

REQUESTING ENTITY: Fire Department

DATE SUBMITTED: 3/4/2020

APPROVED:

---

---

**NORTH SLOPE BOROUGH  
PLANNING AND COMMUNITY SERVICES**

**CIP PROJECT ANALYSIS (PAR) REQUEST FORM**

---

---

CIP project requests over \$200,000 are expected to have a PAR or similar analysis. PARs are not required for the purchase of such items as FF&E or vehicles when the cost, including transportation, can be verified by calling a vendor. Approval for a completed PAR does not indicate a commitment for project funding.

PARs are intended to identify reasonable alternatives. Recommendations may not reflect the first choice of the project proposer. The proposer either accepts the recommendations or takes on the responsibility of convincing the CIP Project Review Committee (PRC) and other decision makers that one of the other options is a better option for the Borough.

PARs will only be approved for projects that have a reasonable expectation of being funded within the next three years either as indicated in the 6 Year Plan's Repair and Replacement Schedule or are consistent with the criteria for a non-discretionary or a priority discretionary project.

**Instructions:**

- 1. Complete this form electronically.**
- 2. Email the completed PDF form to [CIP@north-slope.org](mailto:CIP@north-slope.org).**
- 3. Send an original signed and dated copy via inter-office or regular mail to the Planning Department, attention Nok Acker.**

**Incomplete or unsigned requests are unacceptable and will be returned.**

---

---

**1. REQUESTING ENTITY:** Fire Department

**2. PROJECT NAME:** Wainwright Fire Station Replacement

**3. PROJECT DESCRIPTION:** If this request is for an areawide project, indicate what is being requested by village. Attach additional sheets if necessary.

This project is intended to replace the existing Wainwright Fire Station. The current infrastructure is rapidly deteriorating, causing an unsafe workplace environment for our staff. The flooring throughout the facility is failing; the floors in the garage bays are shifting and uneven; flooring in the Chief's office is lifting up and tearing apart, with large holes in the flooring; the training room floors are deteriorating and becoming uneven, and there are holes in the area that staff normally sit. The trench drain in on of our garage bays is not working, the sump pump is broken and will not drain. There is a intermittent glycol leak in the Chief's office; our staff has to keep an oil pan to catch the leak when it starts and keep emptying it. This has been an ongoing issue for over two years. The Air Handling Unit is not working; all exhaust tubes are either missing or torn. The heating system is declining so the heat in the building is inconsistent, and our staff is normally working in cold temperatures. The Fire Station is currently frozen and there is no running water. This Fire Station Replacement Project will include: destruction and debris removal of existing fire station, design services, and construction of the new fire station.

**PROJECT NAME:** Wainwright Fire Station Replacement

**LOCATION:** Wainwright

**4. PROJECT LOCATION:**

Wainwright, Alaska.

**5. RELATIONSHIP TO NSB REPAIR & REPLACEMENT SCHEDULE:**

Is this project included in the Borough's Repair & Replacement Schedule?  No  Yes

If Yes, is it scheduled for replacement before 2024?  Yes  No

If No, explain why it should be considered out of sequence:

**6. PROJECT JUSTIFICATION: Explain why this project is necessary.**

A. Explain how this project will benefit the current infrastructure or service levels including an explanation of the current deficiencies.

As previously mentioned, the current state of our Fire Station is failing, putting our staff in harms way due to working in a hazardous environment. Replacing it will improve overall working conditions and ensure the safety of our members, so that we are able to continue to provide the best level of care to our North Slope communities.

B. Indicate if this project will expand facilities and/or services and if it will entail increased operating and maintenance costs.

This project can help expand our services, and will end up decreasing operating maintenance costs, as we would no longer need to pay for continuous repairs.

C. Indicate if this is a reoccurring upgrade or repair.

No.

D. Detail outside funds being leveraged, if applicable.

N/A.

**7. Please respond to the following questions:**

A. Is the project in response to a formal warning, a notice of violation (NOV) issuance, or a requirement for a plan of action, relating to a Borough service or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

B. Does the project address an imminent structural failure as documented in writing by a licensed engineer or architect?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**PROJECT NAME:** Wainwright Fire Station Replacement

**LOCATION:** Wainwright

C. Does the project address an environmental condition that without immediate action an imminent, verifiable and documented threat to public health exists?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

D. Has a risk assessment been conducted that documents that a capital investment will avoid failure of a vital Borough function or facility?  No  Yes (If yes, include **written verification**)

Explanation, if necessary:

E. Will this project generate a significant cost saving/reduction to the Borough operating budget?

No  Yes (If yes, include **written verification**)

Explanation, if necessary:

**8. ATTACHMENTS:** List any supplemental information submitted with this request.

**9. ADDITIONAL INFORMATION:** Include any pertinent information not requested elsewhere.

**10. REQUESTOR INFORMATION:**

Requestor Name and Title: Kamalei Hepa, Division Manager

Signature:

Date:

Department Director Name: Lloyd Kanayurak

Department Director Signature:

Date:

 2/19/2020

---

---

Planning Department Use Only

Summary of PRC and Planning Commission discussion and recommendation

Special instruction from PRC and Planning Commission to requesting entity or NSB Department(s)