

Barrow Alaska Coastal Erosion
Barrow, Alaska
Final Feasibility Study
U.S. Army Corps of Engineers
Alaska District

Errata Sheet

November 13, 2019

This errata sheet documents additions to the text of the Real Estate Plan for the Barrow Alaska Coastal Erosion Feasibility Study Report that was released on November 8, 2018, by the U.S. Army Corps of Engineers. There are no changes to the proposed project, significant new circumstances or information identified in this errata sheet that affect the analysis and conclusions in the study.

The following contains the changes to the Real Estate Plan:

Page 12; Table 4 – Potential Properties Requiring Relocation Assistance Benefits

Text added to bottom of table:

“The total LERR costs do not include the costs identified in Table 4, but estimates are included in the event that relocation assistance is needed”

Barrow Alaska Coastal Erosion Feasibility Study

Appendix G: Real Estate Plan



Barrow, Alaska



**US Army Corps
of Engineers**

Alaska District

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Barrow Alaska Coastal Erosion Feasibility Study

Barrow, Alaska

REAL ESTATE PLAN

1. Purpose:

The Real Estate Plan (REP) identifies and describes the real estate requirements for the lands, easements, rights-of-way, and relocations (LERR) that will be required for the this feasibility study. The REP is tentative in nature; it is for planning purposes only and both the final real property acquisition lines and the real estate cost estimates provided are subject to change after approval of the feasibility study. This REP will be consolidated into the feasibility report (FR).

The feasibility study will assess coastal erosion and flooding damages in the vicinity of Barrow, Alaska and determine whether Federal interest exists to construct a project to reduce these damages. The study objectives are:

- Reduce risk to life, health, and safety for the Barrow community over the 50-year period of analysis
- Reduce damages in Barrow caused by flooding and shoreline erosion to residential and commercial structures and critical public infrastructure located within the five mile study area over the 50-year period of analysis
- Reduce or mitigate damage to tangible cultural heritage along the Barrow shoreline, specifically to reduce any further losses to the culturally significant Utqiagvik Village Site over the 50-year period of analysis

2. Authority:

The study is being conducted under authority provided by Section 116 of the Energy and Water Development and Related Agencies Appropriations Act of 2010 (PL 111-85) as amended, which reads, *“The Secretary of the Army is authorized to carry out structural and non-structural projects for storm damage prevention and reduction, coastal erosion, and ice and glacial damage in Alaska, including relocation of affected communities and construction of replacement facilities: Provided, That the non-Federal share of any project carried out pursuant to this section shall be no more than 35 percent of the total cost of the project and shall be subject to the ability of the non-Federal interest to pay, as determined in accordance with 33 U.S.C. 2213(m).”*

The North Slope Borough is the Non-Federal Sponsor (NFS) for this study and the proposed Project Partnership Agreement (PPA). The NFS is to provide all LERR required for the project, with the cost of these real estate interests, along with any incidental administrative expenses in obtaining the LERR. The North Slope Borough will be required to pay the non-Federal share of 35 percent of the costs assigned to coastal storm risk management features of the project as specified by the Section 116 Authority, as amended. The non-Federal costs for LERR will be credited against the sponsor’s total (percent) responsibility or sharing construction costs; any cost for LERR

in excess of 35% will be reimbursed to the sponsor. Non-Federal interests must pay 100% of OMR&R costs assigned to non-Federal shores, and hold and save the U.S. free from damages due to the construction, operation and maintenance.

3. Project Location and Description:

The project area is located in Barrow Alaska, the northernmost community in the United States. It is located 725 air miles from Anchorage at 71° 18' N, 156° 47' W. It is approximately 6 miles south of Point Barrow, which divides the Chukchi and Beaufort Seas. The shoreline runs northeast to southwest, with the town facing the Chukchi Sea (Figure 1). The extent of coastline currently being studied is approximately 25,300 feet in length.

The community of Barrow is also referred to as Utqiagvik. The State of Alaska issued an order and made the name, Utqiagvik, official on December 1, 2016. For the sake of continuity in the feasibility study, the name Barrow is used.

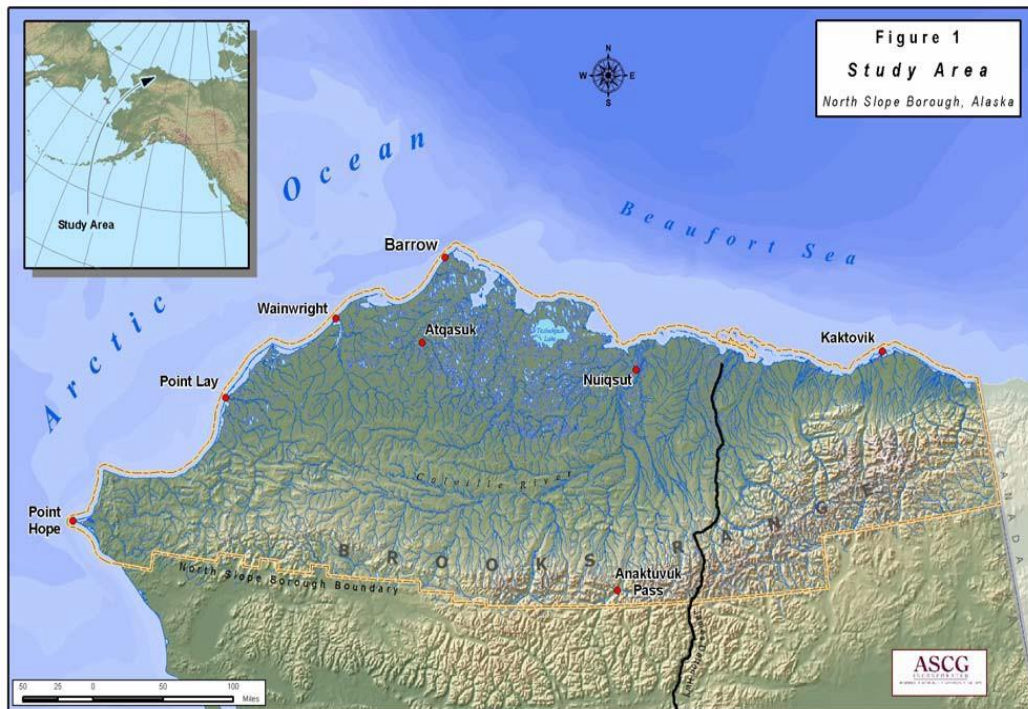


Figure 1. Vicinity Map

The project has been divided into six reaches (identified as one through six, see Figure 2), based on what measures would be most effective preventing erosion and flooding given terrain and existing infrastructure. Along reaches one and two (the bluff and Barrow) a rock revetment would be built to prevent further bluff erosion. In reach three (the lagoon) a revetted berm would be constructed. Finally, reaches four through six (Stevenson Street) would be raised and revetted. (Figure 2).

The project reduces flooding and erosion impacts to the entire five mile study area. A rock revetment would be constructed against the natural bluff. A revetted berm would be constructed to reduce the risk of saltwater inundation to the community's freshwater source in the Lagoon area. The areas of Browerville, South and Middle Salt, and NARL would have a raised and revetted Stevenson Street to reduce the risk of flooding and over topping of the road during strong weather events.

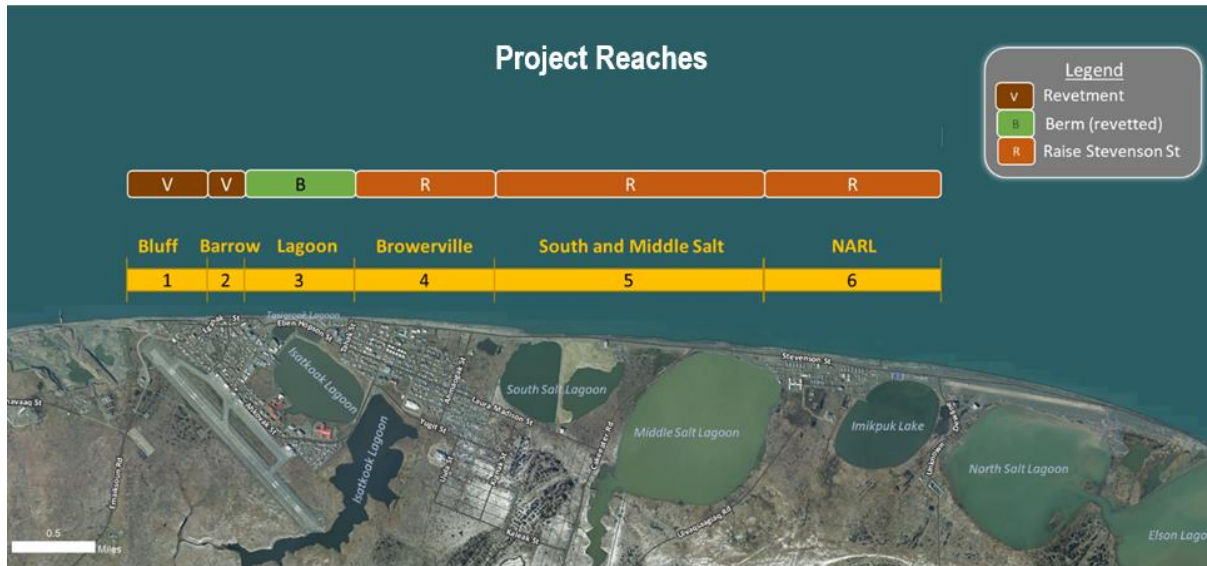


Figure 2. Project Reaches

4. Description of LERR Required:

LERR necessary to implement this project are lands owned by the North Slope Borough, Ukpeaġvik Iñupiat Corporation (UIC), City of Barrow, private owners and native allottees, shown in Table 1.

Table 1: LERR Requirements

Feature	Owners	Acres	Standard Estate See Section 7
Revetment Reaches 1 & 2	1 Parcel, NFS 12 Parcels, Other	.91 7.51	<u>Estate #26</u>
Berm/Revetment Reach 3	2 Parcels, NFS 18 Parcels, Other	.04 15.79	<u>Estate #26</u>
Revetment/Raised Road Reaches 4, 5, & 6	2 Parcels, NFS 7 Parcels, Other	0.69 85.96	<u>Estate #26</u>
TOTAL PROJECT BOUNDARY	42 Parcels	110.90	

Three staging and two barge offloading areas have been identified for the proposed project. Figure 3 shows the staging areas. The two barge offloading areas are directly offshore of both the south and north staging areas. These areas are already used by the community and will be where the project rock and equipment are offloaded. If the NSB is unable to acquire State of Alaska land and two parcels listed as “Native Restricted Property”, the final design will not include protection of these properties. The discontinuous revetment would not fully reduce the risk of erosion at the bluff area and the responsibility would revert to the land owner to reduce risk to their property as they see fit. Section 7.8.2 of the FR explains the risks associated with these three identified properties in more detail. The real estate acquisition risk for a permanent easement is identified in Table 16 of Section 7.10.2 of the FR.

Those tracts listed on Schedule A as “Native Restricted Property” are subject to the following:

25 U.S.C.A. 357

§ 357. Condemnation of lands under laws of States

Lands allotted in severalty to Indians may be condemned for any public purpose under the laws of the State or Territory where located in the same manner as land owned in fee may be condemned, and the money awarded as damages shall be paid to the allottee.

Section 357 (31 Stat. 1084, passed by Congress in 1901) is part of Chapter 9 of the “Indians” Code and refers to a formal process called “Allotment of Indian Lands”. Section 334 of that Chapter provided that Indians not residing on reservations could “make settlement” upon any not otherwise appropriated lands of the United States, by application to a local land office and receipt of a patent from the United States in accordance with Sections 348 and 349. Section 348 permits the Secretary of the Interior, after approving of an allotment provided for in Chapter 9, to issue a patent to the name of the allottee for a period of 25 years for the sole use and benefit of the allottee, with the United States retaining ownership until the end of the 25 year period, at which time the land would be conveyed by the patent to the allottee in fee. According to Section 349, following the transfer of the land in fee, every allottee becomes subject to the laws of the State or Territory of the allotment and of the laws of the United States.

A separate provision of law, the Allotment Act (34 Stat. 197 as amended August 2, 1956 (now codified at 43 U.S.C. 1629g(e)), permitted the Secretary of the Interior to allot up to 160 acres of vacant, unappropriated, nonmineral land in Alaska (and some public lands) to any Indian, Aleut, or Eskimo of full or mixed blood residing in and a native of Alaska, who was head of family or at least 21 years of age.

Congress passed the Alaska Native Claims Settlement Act (43 USC 1601-1624, ANCSA) in 1971, which established a system of village and regional Native corporations to manage lands and funds received by Alaska Natives under the land transfer

provisions of the Act. ANCSA also contains a provision revoking Indian allotment authority in Alaska. The specific provision is 43 USCA 1617, which states:

(a) Revocation of authority

No Native covered by the provisions of this chapter, and no descendant of his, may hereafter avail himself of an allotment under the provisions of the Act of February 8, 1887 (24 Stat. 389), as amended and supplemented, or the Act of June 25, 1910 (36 Stat. 363). Further, the Act of May 17, 1906 (34 Stat. 197), as amended, is repealed. Notwithstanding the foregoing provisions of this section, any application for an allotment that is pending before the Department of the Interior on December 18, 1971, may, at the option of the Native applicant, be approved and a patent issued in accordance with said 1887, 1910, or 1906 Act, as the case may be, in which event the Native shall not be eligible for a patent under section 1613(h)(5) of this title.

“The Act of February 18, 1887” refers to 25 U.S.C.A. 348, the Section of the Allotment of Indian Lands Chapter that authorizes the Secretary of the Interior to issue patents for allotments claimed by Indians. According to the notes accompanying 43 U.S.C.A. 1617, the reference to “36 Stat. 363” likely refers to 36 Stat. 855, passed in 1910, which provides a process for determining the heirs of deceased Indians and the disposition and sale of their allotments. In addition to stating that the allotment allowance provision no longer applied in Alaska to Native allottees or their heirs unless an application for an allotment was pending at the Department of Interior on the effective date of ANCSA, the provision also repealed the Allotment Act, which authorized the transfer of homesteads to Native Alaskans (34 Stat. 197). Although the Allotment Act was repealed, preexisting allotments remain.

The allowance of eminent domain to condemn lands owned by Native Alaskans in Barrow is determined by the timing of the acquisition of the land and the law under which the land was acquired. The Allotment of Indian Lands provision provides expressly for eminent domain under the laws of the State in which the land is located; ANCSA does not contain eminent domain provisions, and it is assumed general eminent domain laws apply.

For lands that are available to be acquired via eminent domain, the following Alaska Statute applies:

AS 29.35.030. Eminent Domain.

(a) Except as provided in (b) of this section, a municipality may, only within its boundaries, exercise the powers of eminent domain and declaration of taking in the performance

of a power or function of the municipality under the procedures set out in AS 09.55.250 - 09.55.460. ...

“Municipality” includes municipal corporations and political subdivisions, as well as cities or boroughs with a home rule charter or unified municipalities. The North Slope Borough was established in 1974 as a home rule borough with a charter. The Borough’s Municipal Code contains a provision regarding acquisition of lands for public purposes. Under §2.38.050 – Procedures to Acquire Lands – the Borough may acquire lands for public purposes by “(6) [E]minent domain, pursuant to AS 9.55.240 through 9.55.460, AS 29.35.030 and the provisions of §2.38.090.” “Public uses” for purposes of exercising eminent domain, include “all public uses authorized by the government of the United States”, and several enumerated items, none of which specifically include erosion control. AS 9.55.240.



Figure 3. Staging Area and Barge Offloading Areas

5. Baseline Cost Estimate on Acquisition of LERR:

The NFS will negotiate to secure real estate interest required for the project. The estimate of the fair market value (FMV) are based on a FMV appraisal provided by Marie Moore, North Star Borough's appraiser dated 27 December 2018. The Alaska District, Real Estate Branch, staff estimated administrative cost. Contingencies (CONT.) have been added to the estimates as follows:

01.23.03.01 Real Estate Planning Documents: Amount to develop "start-up" items (i.e. survey, title search, etc). 25% contingency based on reasonable cost estimates.

01.23.03.02 Real Estate Acquisition Documents: The sponsor will have certain procedures and documents that they use to acquire property. 25% contingency based on reasonable cost estimates.

01.23.03.03 Real Estate Condemnation Documents:
10% contingency based on the normal risks of court actions.

01.23.03.05 Real Estate Appraisal Documents: Amount of the appraisals X the number of tracts. 20% contingency based on reasonable contract costs.

01.23.03.06 Real Estate PL 91-646 Asst. Documents:
10% contingency based on reasonable cost estimates.

01.23.03.13 Real Estate Facility/Utility Relocation Documents: Cost to relocated facility provided by the facility owner + contingency.

01.23.03.15 Real Estate Payment Documents: Amount is taken from the Appraisal and is the value of the tracts to be acquired. 20% contingency based on reasonable cost estimates.

01.23.03.17 Real Estate LERR Accounting Documents: The sponsor cost for providing to the Corps of Engineers all documents associated with the acquisition of the tracts. 20% contingency based on reasonable cost estimates.

The Baseline Cost Estimate for LERR is shown in Table 2. The estimates are presented in the standard Code of Accounts from M-CACES II Model Database.

Table 2: Baseline Cost Estimates for LERR

ACCOUNT	DESCRIPTION	LERR	CONT.		NON-LERR	CONT.
	Land & Damages					
1	Construction Contracts Documents					
1.23	Real Estate Analysis Documents					
01.23.03	Real Estate Planning Documents					
01.23.03.01	Planning by Non Federal Sponsor for Acquisition of LERR	20,000.00	5,000.00		10,000.00	2,500.00
	Review of Non Federal Sponsor		0.00		10,000.00	2,500.00
	Real Estate Acquisition Documents		0.00		0.00	0.00
01.23.03.02	Acquisitions by Sponsor	418,000.00	104,500.00		0.00	0.00
	Review of Sponsor		0.00		4,300.00	1,075.00
	Real Estate Condemnation Documents		0.00			0.00
01.23.03.03	Condemnation by Sponsor	0.00	0.00			0.00
	Review of Sponsor		0.00		0.00	0.00
	Real Estate Appraisal Documents		0.00			0.00
01.23.03.05	Appraisal by Sponsor	300,000.00	60,000.00			0.00

ACCOUNT	DESCRIPTION	LERR	CONT.		NON-LERR	CONT.
	Review of Sponsor		0.00		66,000.00	13,200.00
	PL 91-646 Asst by Sponsor	0.00	0.00			0.00
	Review of Sponsor		0.00		0.00	0.00
	Real Estate Facility/Utility Relocation		0.00			0.00
01.23.03.13	Payment by Sponsor					0.00
	Payment by Sponsor to relocate Facility/Utility	100,000.00	25,000.00			0.00
	Review of Sponsor		0.00		2,000.00	500.00
	Real Estate Payment Documents		0.00			0.00
01.23.03.15	Payment by Sponsor for LERR	2,654,664.29	530,932.86			0.00
	Payment by Sponsor (PL 91-646)	0.00	0.00			0.00
	Review of Sponsor		0.00		10,000.00	2,000.00
01.23.03.17	Real Estate LERR Credit Documents	5,000.00	1,000.00		4,300.00	860.00
	Total Admin & payment	3,497,664.29			102,300.00	
	Total contingencies		726,432.86			22,635.00
	Total LERR + Contingencies	4,224,097.15			124,935.00	
	PROJECT GRAND TOTAL					\$4,349,032

6. LERR Already Owned by the NFS: LERR is shown in Table 3.

Table 3: LERR Already Owned by the NFS

Project Tract Number	Property ID	Ownership Estate	Held by
2	R-001-031-57	Fee	Plat 87-18 Certificate of Ownership & Dedication
15	R-001-041-18	Fee	Warranty Deed Bk 0044 Pg 760 Barrow Recording Dist
38	R-001-481-31	Fee	Plat 2013-7 Certificate of Ownership
40	R-001-481-32	Fee	Plat 2013-7 Certificate of Ownership
41	R-001-021-05	Fee	Plat 86-10 Certificate of ownership dedication

7. Standard Estates:

Estate #15: TEMPORARY WORK AREA EASEMENT

A temporary easement and right-of-way in, on, over and across (the land described in Schedule A) (Tracts Nos. ____, ____ and ____), for a period not to exceed _____ beginning with the date possession of the land is granted to the _____, for use by the United States, its representatives, agents, and contractors as a (borrow area) (work area), including the right to (borrow and/or deposit fill, spoil and waste material thereon) (move, store and remove equipment and supplies) and erect and remove temporary structures on the land and to perform any other work necessary and incident to the construction of the _____ project, together with the right to trim, cut, fell and remove therefrom all trees, underbrush, obstructions, and any other vegetation, structures, or obstacles within the limits of the right-of-way; reserving, however, to the landowners, their heirs and assigns, all such rights and privileges as may be used without interfering with or abridging the rights and easement hereby acquired; subject, however, to existing easements for public roads and highways, public utilities, railroads and pipelines.

Estate # 26: PERPETUAL BEACH STORM DAMAGE REDUCTION EASEMENT

A perpetual and assignable easement and right-of-way in, on, over and across (the land described in Schedule A) (Tract No. __) for use by the (Project Sponsor), its representatives, agents, contractors, and assigns, to construct; preserve; patrol; operate; maintain; repair; rehabilitate; and replace; a public beach [a dune system] and other erosion control and storm damage reduction measures together with appurtenances

thereto, including the right to deposit sand; to accomplish any alterations of contours on said land; to construct berms [and dunes]; to nourish and renourish periodically; to move, store and remove equipment and supplies; to erect and remove temporary structures; and to perform any other work necessary and incident to the construction, periodic renourishment and maintenance of the (Project Name), together with the right of public use and access; [to plant vegetation on said dunes and berms; to erect, maintain and remove silt screens and sand fences; to facilitate preservation of dunes and vegetation through the limitation of access to dune areas;] to trim, cut, fell, and remove from said land all trees, underbrush, debris, obstructions, and any other vegetation, structures and obstacles within the limits of the easement (except_____); [reserving, however, to the grantor(s), (his) (her) (its) (their) (heirs), successors and assigns, the right to construct dune overwalk structures in accordance with any applicable Federal, State or local laws or regulations, provided that such structures shall not violate the integrity of the dune in shape, dimension or function, and that prior approval of the plans and specifications for such structures is obtained from the (designated representative of the Project Sponsor) and provided further that such structures are subordinate to the construction, operation, maintenance, repair, rehabilitation and replacement of the project; and further] reserving to the grantor(s), (his) (her) (its) (their) (heirs), successors and assigns all such rights and privileges as may be used and enjoyed without interfering with or abridging the rights and easements hereby acquired; subject however to existing easements for public roads and highways, public utilities, railroads and pipelines.

8. Existing Federal Projects:

There are no other existing federal projects that lies fully or partially within the LERR required for this project.

9. Federally Owned Lands:

No federally owned lands are included within the LERR required for the project.

10. Navigational Servitude

The navigation servitude may only be exercised by the Federal Government for Congressionally authorized projects or measures that are related to navigation or pursuant to regulatory authorities to protect navigation. Navigation servitude is not being applied to this project.

11. Project Map:

Project Map identified as Exhibit B.

12. Flooding Induced by Project:

There is no flooding which will be induced by the construction or the operation and maintenance of the proposed project. As such, no Physical Takings Analysis is required.

13. Relocation Assistance Benefits (P.L. 91-646):

Based on the current rate of the erosion, no persons or businesses will be displaced and no relocation assistance benefits are anticipated, if construction begins before 2025. All lands needed will be acquired through permanent easement by the NFS. If the rate of the erosion accelerates beyond the 2025 erosion line before construction, the five properties on the bluff, in Reach 1, will be in danger of going over the bluff and would require relocation. Per ER 405-1-12, 12-16 c.(11), Table 4 below identifies the five properties at the bluff that could require relocation assistance benefits if the property is constructed after 2025. Replacement home sites or replacement housing are not yet identified. The NFS will continue to reach out to the City of Barrow and UIC to determine where replacement homes sites would be located.,

Table 4: Potential Properties Requiring Relocation Assistance Benefits

Project Tract Number	Property ID	Feature	Acres	Type Owner	Estimated Persons Displaced*	Fair Market Value
8	R-001-041-10	Revetment	0.18	Private	4	\$241,600
10	R-001-041-12	Revetment	0.18	Native Restricted Property	Abandoned	\$39,400
11	R-001-041-13	Revetment	0.18	Native Restricted Property	Abandoned	\$34,900
12	R-001-041-14	Revetment	0.18	Private	6	\$85,600
13	R-001-041-15	Revetment	0.18	Private	5	\$118,300
*Note: Estimated displaced persons were calculated based on input from the Sponsor, square footage of homes and number of bedrooms.						

14. Mineral Activity Impacted Present/Future:

There are no current or anticipated mineral (subsurface or surface) or timber activities within the vicinity of the proposed project that will affect construction, operation, or maintenance of the proposed project.

15. Assessment of Non-Federal Sponsor Legal Capability:

The North Slope Borough is a fully capable sponsor for acquiring the required lands, easements, and rights-of-way (See Exhibit "A" - Sponsor Real Estate Acquisition Capability Assessment). The Sponsor has professional experienced staff and legal capability to provide all LERR required for project purposes. The Sponsor's point of contact information is:

Scott Evans
 Deputy Director
 Department of Capital Improvement Program Management
 (CIPM)
 Email: Scott.Evans@north-slope.org

16. Advance Acquisition:

The NFS has been notified in writing about the risks associated with acquiring land before the execution of the Project Partnership Agreement (PPA) and the Government’s formal notice to proceed with acquisition.

17. Zoning Ordinances Considered in Support of LERR Requirements:

No zoning ordinances are proposed in lieu of, or to facilitate acquisition in connection with the project.

18. Real Estate Schedule:

The anticipated project schedule, unless revised after coordination with NFS, is shown in Table 5.

Table 5: Real Estate Schedule

Task	Start
NFS – Receipt of the final real estate drawing from the Alaska District, Engineers.	2-4 weeks after PPA execution.
POA – Formal transmission of right of way drawing and instructions to acquire LERR.	4-6 weeks after PPA execution.
NFS – Certify all necessary LERR available for construction.	6-24 months after PPA execution.
POA – Certifies/verifies the NFS has acquired the real interest required and sufficiency for contract advertisement, etc.	Prior to contracting.
NFS – Prepare and submit credit requests.	6-8 months upon completion of project.
POA – Review/approve or deny credit requests.	6 months of NFS submission

19. Mitigation:

It has been determined that the project will have an adverse effect on the Utqiagvik Village site (BAR-002). A Memorandum of Agreement (MOA) between the NFS, SHPO, and USACE has been developed and was signed on 7 June 2019. The MOA mitigates the adverse effects that the project has on BAR-002 through archaeological excavation and monitoring.

20. Facility/Utility Relocation:

Power Poles and Power Lines:

The Barrow Utilities and Electric Cooperative, Inc. (BUECI) is the owner of the three (3) power poles that require relocation. BUECI provided the estimated cost to relocate the three BUECI poles and accessories to be \$100,000. Should the pole located north of pole #1, at 71°18'14.27"N/156°45'26.475" W and/or its associated feeder line infrastructure need to be relocated, those costs should be within the project contingency. Power pole relocations are shown in Table 6.

A Final Attorney's Opinions of Compensability and final relocation determination will be provided during PED. Any conclusion or categorization contained in this report that an item is a utility or facility relocation to be performed by the non-federal sponsor as part of its LERRD responsibilities is preliminary only. The government will make a final determination of the relocations necessary for the construction, operation, or maintenance of the project after further analysis and completion and approval of final attorney's opinions of compensability for each of the impacted utilities and facilities.

ANY CONCLUSION OR CATEGORIZATION CONTAINED IN THIS REPORT THAT AN ITEM IS A UTILITY OR FACILITY RELOCATION TO BE PERFORMED BY THE NON-FEDERAL SPONSOR AS PART OF ITS LERRD RESPONSIBILITIES IS PRELIMINARY ONLY. THE GOVERNMENT WILL MAKE A FINAL DETERMINATION OF THE RELOCATIONS NECESSARY FOR THE CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PROJECT AFTER FURTHER ANALYSIS AND COMPLETION AND APPROVAL OF FINAL ATTORNEY'S OPINIONS OF COMPENSABILITY FOR EACH OF THE IMPACTED UTILITIES AND FACILITIES.

Table 6: Power Poles To Be Relocated

ID	LOCATION (Lat/Long)
1	71°18'13.461"N/156°45'28.914"W
2	71°18'42.73"N/156° 43'51.943"W
3	71°19'27.865"N/156° 41'32.277"W

21. Environmental Impact:

The completed environmental assessment supports the conclusion that the action does not constitute a major federal action significantly affecting the quality of the human and natural environment. An environmental impact statement is therefore not necessary for the Alaska District's construction of coastal erosion and flooding risk reduction structures in Barrow, Alaska.

22. Landowner Opposition:

The public gave feedback about their concerns, but had no opposition to the project. Public comments were solicited during the concurrent review period (4 September 2018 through 21 October 2018). A total of 362 comments were received, 10 of which were relevant to property acquisition. Further coordination will be ongoing between the City of Utqiavik, U.S. Army Corps of Engineers, State and Federal resource agencies, and residents in the area; public notices will be distributed within the project vicinity.

23. Cultural Resources:

The Recommended Plan would protect the archeological site in Barrow and the associated cultural resources and cultural opportunities. It is assumed that access for persons and equipment for construction in Reach 1 and any required maintenance of the project in the vicinity of the Utqiavik Village Site (BAR 002) would be from the beach side to ensure that no negative impacts to resources at the site occur.

24. Other Real Estate Issues:

The following section describes the four remaining Real Estate issues for project implementation.

Beach Access

Four existing beach access areas (breaks in the sacrificial berm or natural coastline features) are currently used for public vessel launching, commercial goods offloading and public access for the community to gain access to the beach from the road. The intent of the Recommended Plan is to maintain these four beach access area in their current location.

If the plans and specifications developed during PED require a change in the location of any or all of the beach access areas, then these beach access areas would be treated as relocations. There is currently no infrastructure in these four areas. These locations are both natural breaks in the coastline used for public access for recreation and subsistence activities and breaks in the sacrificial berm where the community places removable rubber mats to launch vessels and barge landing to offload goods. No land would need to be acquired if either the four beach access areas are maintained in their current location or relocated along the beach in Barrow. Land ownership can be found in Tables 1 and 3. The below images show examples of existing beach access areas that plan to be maintained with implementation of a project. Figure 4 shows a break in the sacrificial berm used by the public to access the beach, similar to walking through a break in a sand dune. Figures 5 and 6 show the same beach access area from different viewpoints.



Figure 4. Break in the sacrificial berm for public beach access in Barrow, Alaska



Figure 5. Public beach access at natural break in the coastline between Reaches 1 and 2 (view from the ground).



Figure 6. Public beach access at natural break in the coastline between Reaches 1 and 2 (view from the air). The red arrow shows the viewpoint from Figure 5.

LERR Crediting

The borough has been advised of Public Law (P.L.) 91-646 requirements and the requirements for documenting expenses for LERR crediting purposes.

Sponsor Facility

The Sponsor Facility is a one lane road within reaches four through six that would be raised during implementation of a project. Acquiring the land is the responsibility of the NFS, and may be required as part of the PPA, because it is necessary for project benefits to accrue.

Landfill Ownership

The landfill is owned by the NFS and located outside of the project area. The conveyance documents are included in Exhibit B.

PREPARED BY:

REVIEWED AND APPROVED BY:

RONALD J. GREEN
Realty Specialist

STANLEY WHARRY
Acting Chief, Real Estate Branch

SCHEDULE A

Project Tract Number	Property ID	Feature	Acres Required	TypeOwner
1	State AKDOT	Revetment	1.84	State
2	R-001-031-57	Revetment	0.91	NFS
3	Lot 1 Blk 39 USS 4615	Revetment	1.84	City
4	R-001-031-25	Revetment	3.05	City
5	R-001-031-30	Revetment	0.04	City
6	R-001-031-31	Revetment	0.07	Native Restricted Property
7	R-001-031-32	Revetment	0.09	Native Restricted Property
8	R-001-041-10	Revetment	0.09	Private
9	R-001-041-11	Revetment	0.09	Native Restricted Property
10	R-001-041-12	Revetment	0.10	Native Restricted Property
11	R-001-041-13	Revetment	0.10	Native Restricted Property
12	R-001-041-14	Revetment	0.10	Private
13	R-001-041-15	Revetment	0.09	Private
14	ROW Okoksik St	Berm/Revetment	0.28	City
15	R-001-041-18	Berm/Revetment	0.04	NFS
16	R-001-041-19	Berm/Revetment	0.14	Private
17	R-001-041-20	Berm/Revetment	0.10	City
18	Lot 17 USS 4615	Berm/Revetment	9.00	City
19	R-001-081-32	Berm/Revetment	0.69	City
20	R-001-081-33	Berm/Revetment	1.58	City
21	ROW Stevenson St Between 260 - 265	Berm/Revetment	0.06	Native Corporation

Project Tract Number	Property ID	Feature	Acres Required	TypeOwner
22	ROW Stevenson St Between 265 - 270	Berm/Revetment	0.67	Native Corporation
23	R-001-021-32	Berm/Revetment	0.03	Native Restricted Property
24	R-001-021-33	Berm/Revetment	0.04	Native Restricted Property
25	R-001-021-03	Berm/Revetment	0.05	Private
26	R-001-021-02	Berm/Revetment	0.04	Native Restricted Property
27	R-001-021-37	Berm/Revetment	0.38	Native Corporation
28	R-001-021-38	Berm/Revetment	0.39	Private
29	R-001-021-39	Berm/Revetment	0.86	Private
30	ROW Panestak Road	Berm/Revetment	0.10	City
31	R-001-151-08	Revetment/Raise Road	2.86	City
32	ROW Stevenson St Between 275 -385	Revetment/Raise Road	16.64	Native Corporation
33	R-001-191-01	Revetment/Raise Road	1.62	Native Corporation
34	R-001-191-02	Revetment/Raise Road	2.44	Native Corporation
35	ROW Stevenson St Between 380 - 460	Revetment/Raise Road	6.84	Native Corporation
36	Lot 9 USS 5253	Revetment/Raise Road	26.37	Native Corporation
37	Lot 9 USS 5253	Revetment/Raise Road	29.18	Native Corporation
38	R-001-481-31	Revetment/Raise Road	0.64	NFS
39	R-001-041-21	Berm/Revetment	0.00	Private
40	R-001-481-32	Revetment/Raise Road	0.05	NFS

Project Tract Number	Property ID	Feature	Acres Required	TypeOwner
41	R-001-021-05	Berm/Revetment	0.01	NFS
42	ROW Egasak St Between 230 - 245	Berm/Revetment	1.37	City

EXHIBIT A

ASSESSMENT OF NON-FEDERAL SPONSOR'S REAL ESTATE ACQUISITION CAPABILITY COASTAL EROSION, SEC 116, FEASIBILITY STUDY

BARROW, ALASKA

1. **LEGAL AUTHORITY:**

- a. Does the sponsor have legal authority to acquire and hold title to real property for project purposes? YES NO
- b. Does the sponsor have the power of eminent domain for this project? YES NO
- c. Does the sponsor have "Quick-Take" authority for this project? YES NO
- d. Are any of the lands/interests in land required for this project located outside the sponsor's political boundary? YES NO
- e. Are any of the lands/interests in land required for this project owned by an entity whose property the sponsor cannot condemn? YES NO

2. **HUMAN RESOURCE REQUIREMENTS:**

- a. Will the sponsor's in-house staff require training to become familiar with the real estate requirements of Federal projects including P.L. 91-646, as amended? YES NO
- b. If the answer to 2a is "YES" has a reasonable plan been developed to provide such training? YES NO
- c. Does the sponsor's in-house staff have sufficient real estate acquisition experience to meet its responsibilities for the project? YES NO
- d. Is the sponsor's projected in-house staffing level sufficient considering its other work load, if any, and the project schedule? YES NO
- e. Can the sponsor obtain contractor support, if required in a timely fashion? YES NO
- f. Will the sponsor likely request USACE assistance in acquiring real estate? YES NO

3. **OTHER PROJECT VARIABLES:**
a. Will the sponsor's staff be located within reasonable proximity to the project site?
YES NO

b. Has the sponsor approved the project/real estate schedule/milestones?
YES NO

4. **OVERALL ASSESSMENT:**
a. Has the sponsor performed satisfactorily on other USACE projects?
YES NO

b. With regard to this project, the sponsor is anticipated to be:
HIGHLY CAPABLE FULLY CAPABLE
MODERATELY CAPABLE MARGINALLY CAPABLE
INSUFFICIENTLY CAPABLE

Justification for Insufficient Capability:

5. **COORDINATION:**
a. Has this assessment been coordinated with the sponsor?
YES NO
b. Does the sponsor concur with this assessment?
YES NO

Justification for Sponsor Non-concurrence:

SPONSOR: NORTH SLOPE BOROUGH

Harry Brower
(Signature)

Harry K. Brower, Jr. Mayor
(Printed Name and Title)

REVIEWED AS TO FORM
Alex deRavel
NSB Attorney
5/14/19
Date

PREPARED BY:

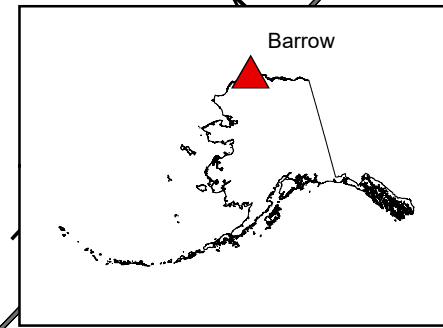
GREEN.RONALD.JON Digitally signed by GREEN.RONALD.JONATHAN.12025791
ATHAN.1202579147 47 Date: 2019.05.20 13:38:02 -08'00'

RONALD J. GREEN
Realty Specialist

REVIEWED AND APPROVED BY:

DERAVEL.ALEXAND Digitally signed by DERAVEL.ALEXANDRE.PJ.1550199
RE.PJ.1550199048 048 Date: 2019.05.20 14:57:18 -08'00'

ALEX deRAVEL
Chief, Real Estate
Real Estate Contracting Officer



7	8	9	10	11	12	13	14
18	17	16	15	14	13	12	11
19	20	21	22	T23N, R17W, UM	23	24	25
			T23N, R18W, UM				
30	29	28	27	26	25	24	23
31	32	33	34	35	36	37	38
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

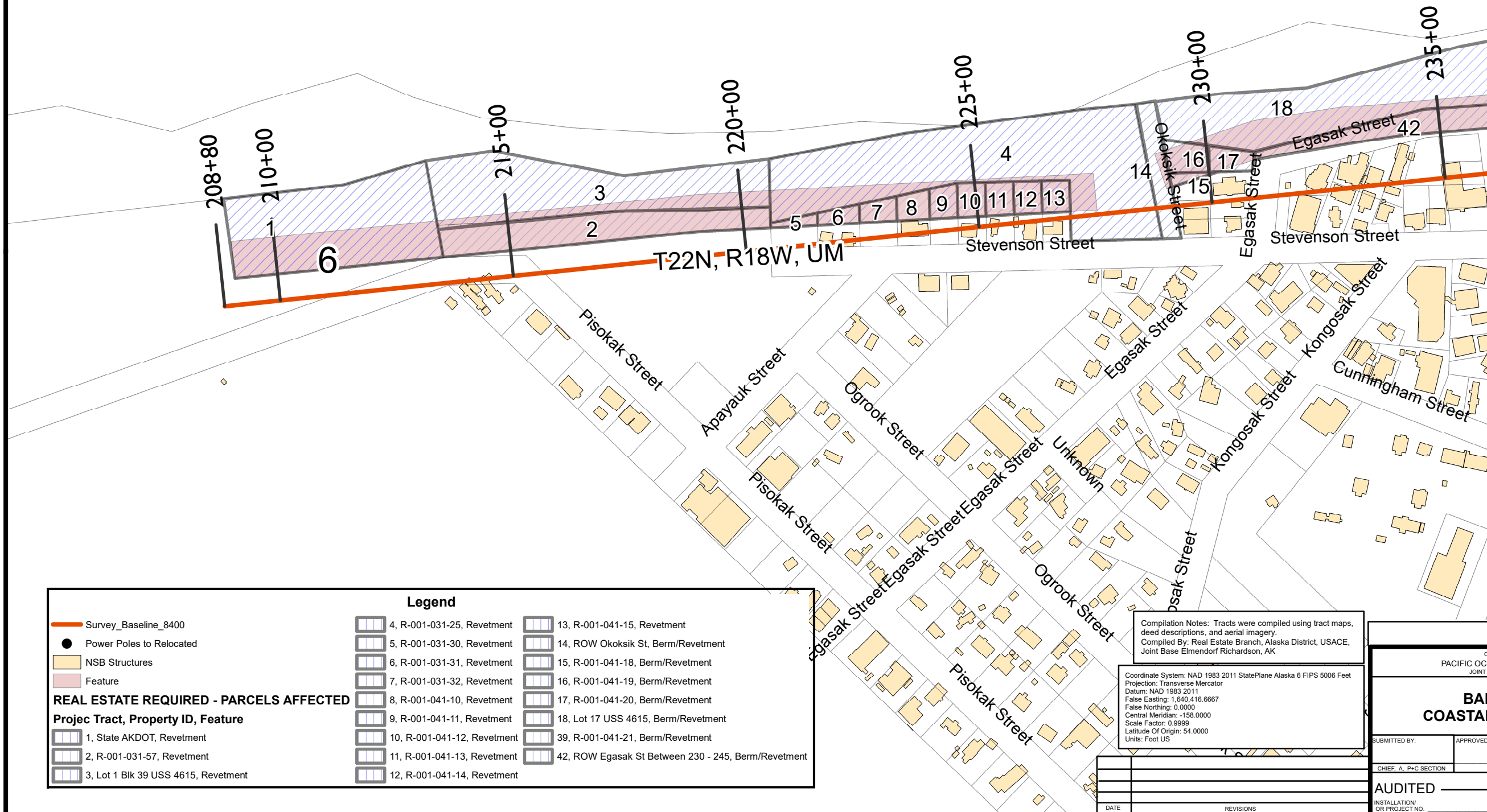
TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.
RESERVATION LINE _____
RESERVATION LINE (Actual Survey) _____
TRACT BOUNDARY LINE _____
TRACT NUMBER _____
CONTOUR LINE _____
DISPOSAL _____
EXTENDED OWNERSHIP LINE _____



Legend		
Projec Tract, Property ID, Feature		
Survey_Baseline_8400	1, State AKDOT, Revetment	4, R-001-031-25, Revetment
Power Poles to Relocated	2, R-001-031-57, Revetment	5, R-001-031-30, Revetment
NSB Structures	3, Lot 1 Blk 39 USS 4615, Revetment	6, R-001-031-31, Revetment
Feature		7, R-001-031-32, Revetment
		8, R-001-041-10, Revetment
		9, R-001-041-11, Revetment
		10, R-001-041-12, Revetment
		11, R-001-041-13, Revetment
		12, R-001-041-14, Revetment
		13, R-001-041-15, Revetment
		14, ROW Okoksik St, Berm/Revetment
		15, R-001-041-18, Berm/Revetment
		16, R-001-041-19, Berm/Revetment
		17, R-001-041-20, Berm/Revetment
		18, Lot 17 USS 4615, Berm/Revetment
		39, R-001-041-21, Berm/Revetment
		42, ROW Egasak St Between 230 - 245, Berm/Revetment

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

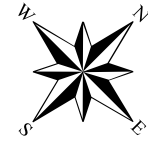
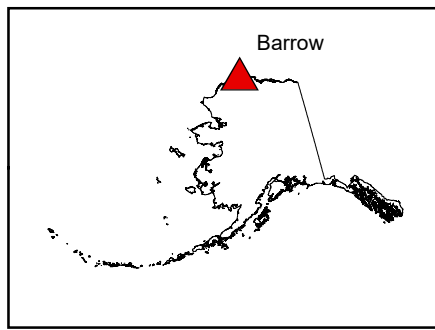
CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET 1 OF 12 DRAWING NO. _____

EXHIBIT B



7	8	9	10	11	12	13	14
18	17	16	15	14	13	12	11
19	20	21	22	T23N, R17W, UM	23	24	25
30	29	28	27	T23N, R18W, UM	26	25	30
31	32	33	34	35	36	37	38
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

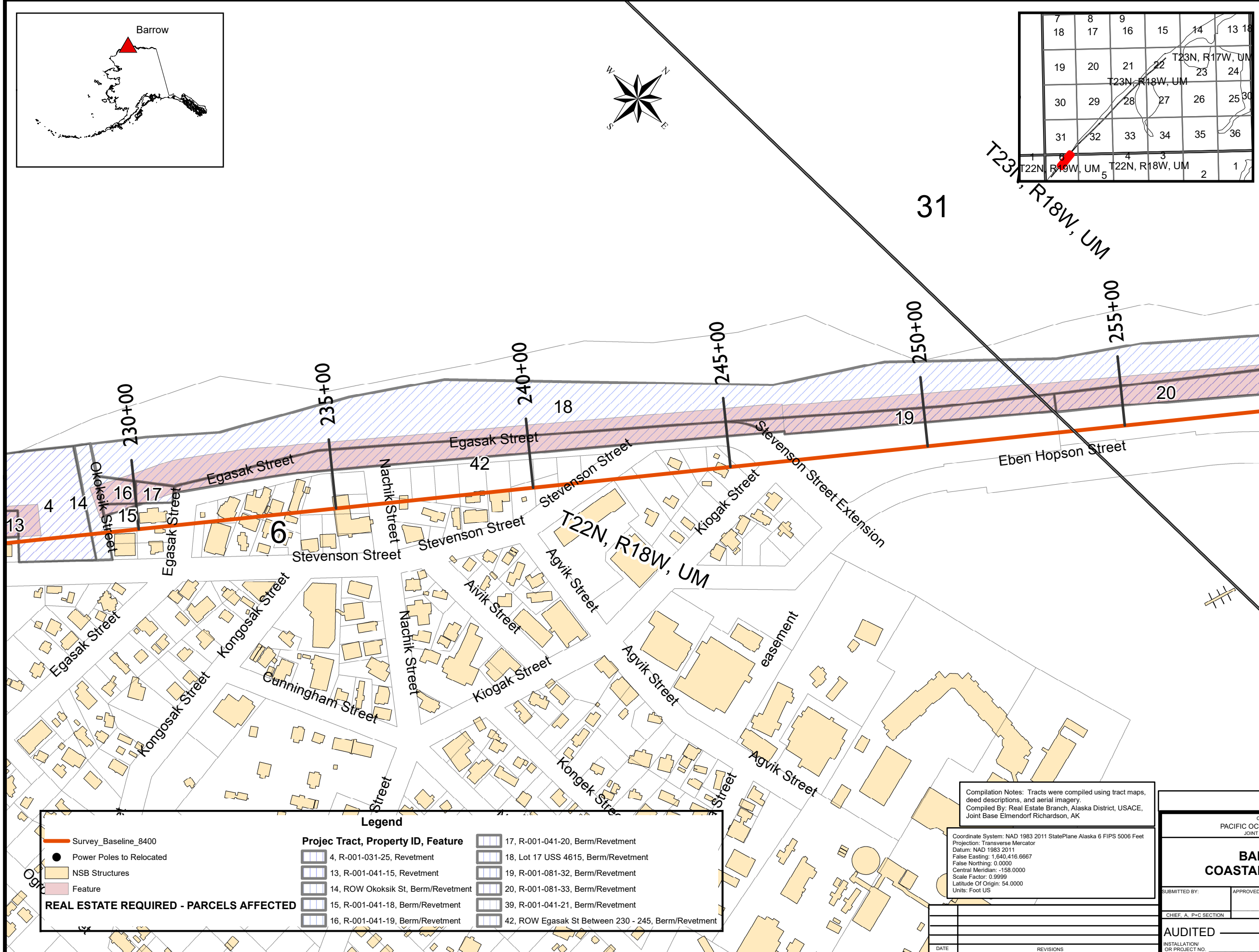
TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.
RESERVATION LINE _____
RESERVATION LINE (Actual Survey) _____
TRACT BOUNDARY LINE _____
TRACT NUMBER _____
CONTOUR LINE _____
DISPOSAL _____
EXTENDED OWNERSHIP LINE _____



Legend	
	Survey_Baseline_8400
	Power Poles to Relocated
	NSB Structures
	Feature
REAL ESTATE REQUIRED - PARCELS AFFECTED	
	Projec Tract, Property ID, Feature
	17, R-001-041-20, Berm/Revetment
	18, Lot 17 USS 4615, Berm/Revetment
	19, R-001-081-32, Berm/Revetment
	20, R-001-081-33, Berm/Revetment
	39, R-001-041-21, Berm/Revetment
	42, ROW Egasak St Between 230 - 245, Berm/Revetment
	4, R-001-031-25, Revetment
	13, R-001-041-15, Revetment
	14, ROW Okoksik St, Berm/Revetment
	15, R-001-041-18, Berm/Revetment
	16, R-001-041-19, Berm/Revetment

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
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False Northing: 0.0000
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Units: Foot US

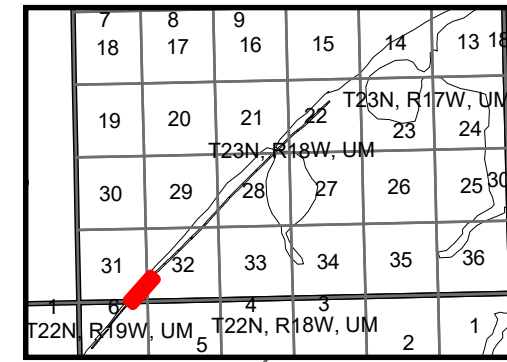
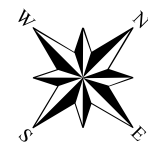
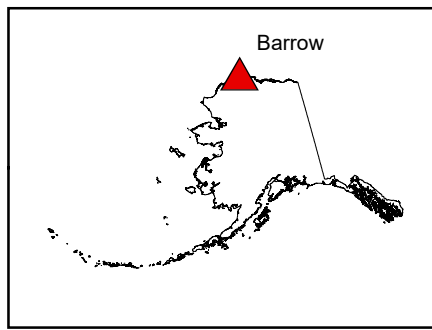
CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET 2 OF 12 DRAWING NO. _____

EXHIBIT B



PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

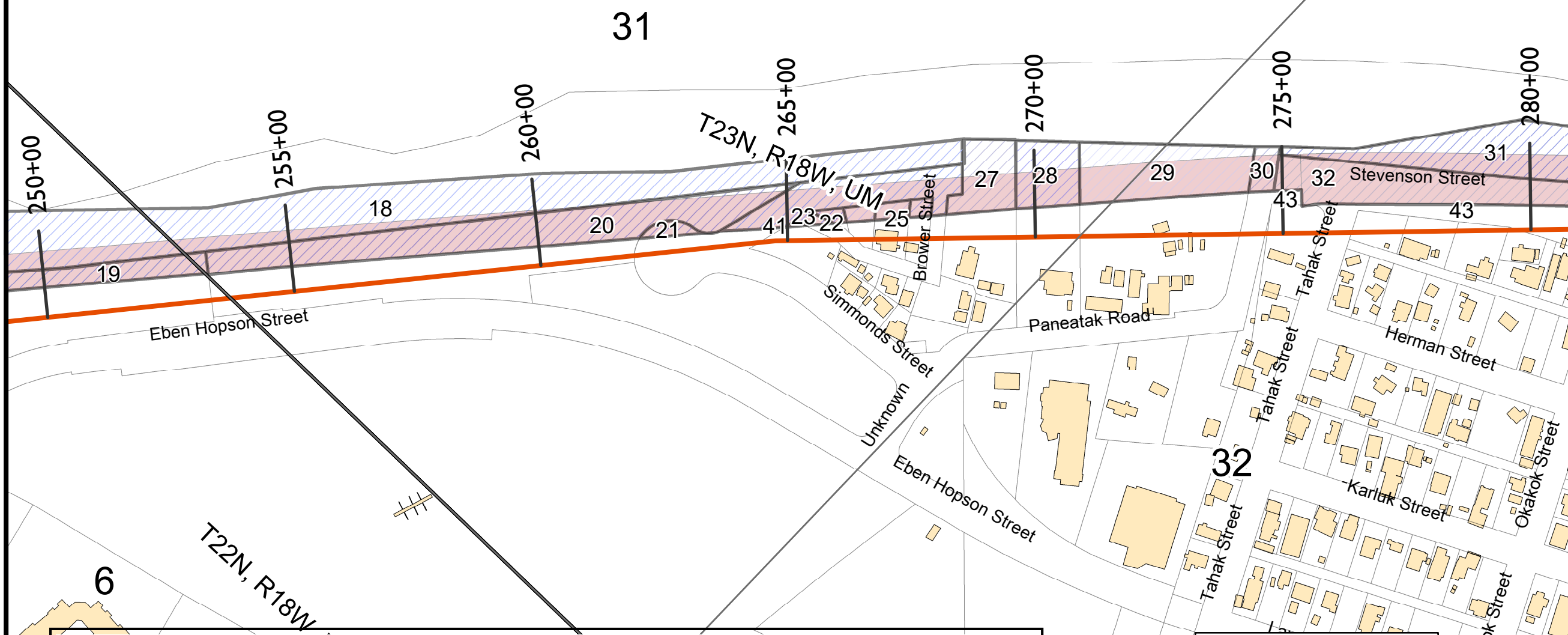
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Legend			
	Survey_Baseline_8400		20, R-001-081-33, Berm/Revetment
	Power Poles to Relocated		21, ROW Stevenson St Between 260 - 265, Berm/Revetment
	NSB Structures		22, ROW Stevenson St Between 265 - 270, Berm/Revetment
	Feature		23, R-001-021-32, Berm/Revetment
REAL ESTATE REQUIRED - PARCELS AFFECTED			24, R-001-021-33, Berm/Revetment
Projec Tract, Property ID, Feature			25, R-001-021-03, Berm/Revetment
	18, Lot 17 USS 4615, Berm/Revetment		26, R-001-021-02, Berm/Revetment
	19, R-001-081-32, Berm/Revetment		27, R-001-021-37, Berm/Revetment
			28, R-001-021-38, Berm/Revetment
			29, R-001-021-39, Berm/Revetment
			30, ROW Panestak Road, Berm/Revetment
			31, R-001-151-08, Revetment/Raise Road
			32, ROW Stevenson St Between 275 -385, Revetment/Raise Road
			41, R-001-021-05, Berm/Revetment

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
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False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK
REAL ESTATE
BARROW ALASKA
COASTAL EROSION PROJECT
CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____

CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

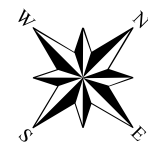
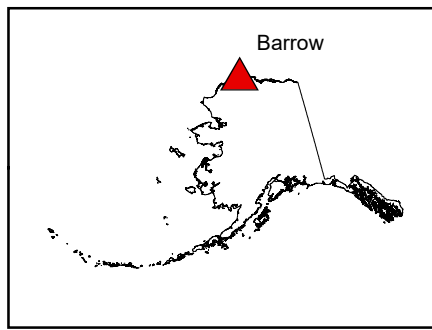
AUDITED _____

INSTALLATION/ OR PROJECT NO. _____

SCALE 125 62.5 0 125 Feet

SHEET **3** OF **12** DRAWING NO. _____

EXHIBIT B



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19	20		T23N, R18W, UM				
30	29	28	27	26	25	30	
31	32	33	34	35	36		
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

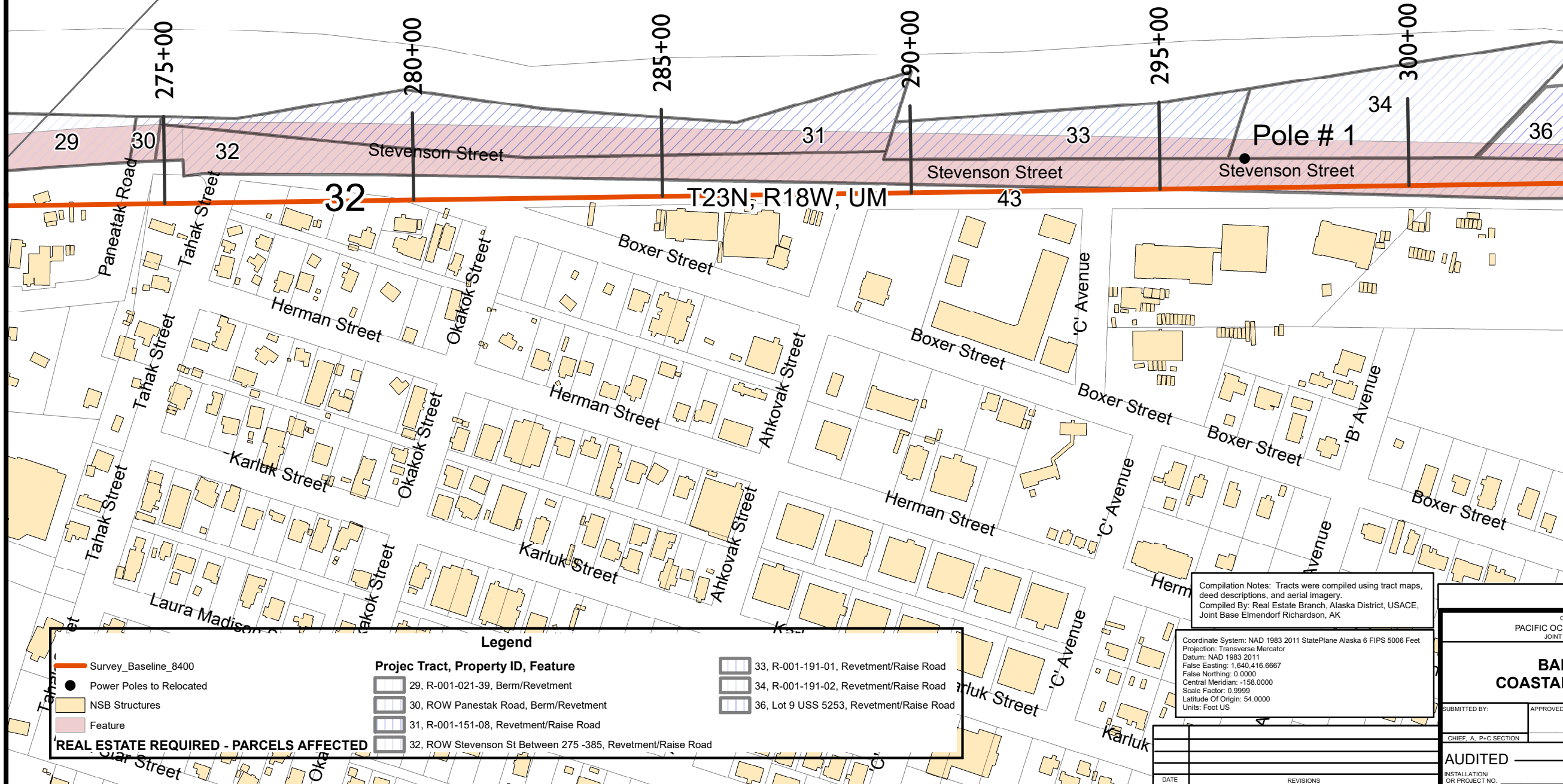
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Survey_Baseline_8400	33, R-001-191-01, Revetment/Raise Road
Power Poles to be Relocated	34, R-001-191-02, Revetment/Raise Road
NSB Structures	36, Lot 9 USS 5253, Revetment/Raise Road
Feature	31, R-001-151-08, Revetment/Raise Road
REAL ESTATE REQUIRED - PARCELS AFFECTED	32, ROW Stevenson St Between 275 -385, Revetment/Raise Road
29, R-001-021-39, Berm/Revetment	
30, ROW Panestak Road, Berm/Revetment	

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
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Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
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Datum: NAD 1983 2011
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Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

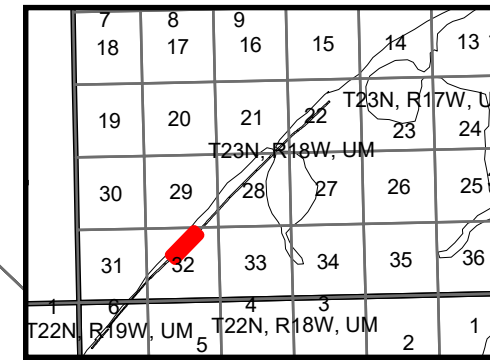
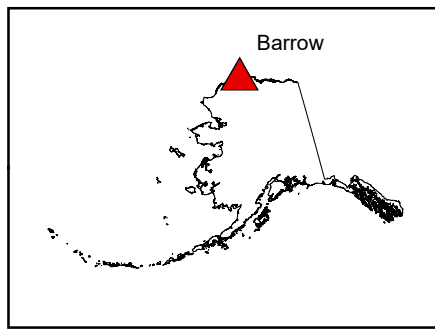
**REAL ESTATE
BARROW ALASKA
COASTAL EROSION PROJECT
CIVIL WORKS**

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____

SCALE 125 62.5 0 125 Feet
SHEET **4** OF **12** DRAWING NO. _____

EXHIBIT B



PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

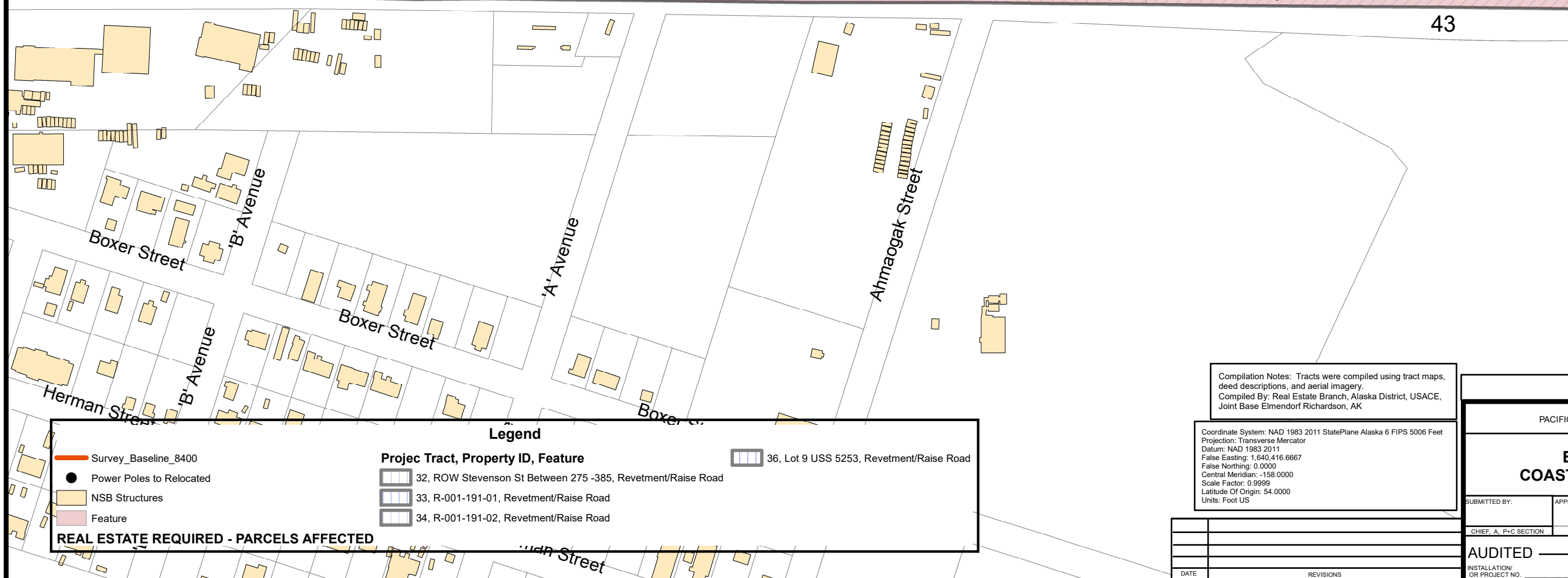
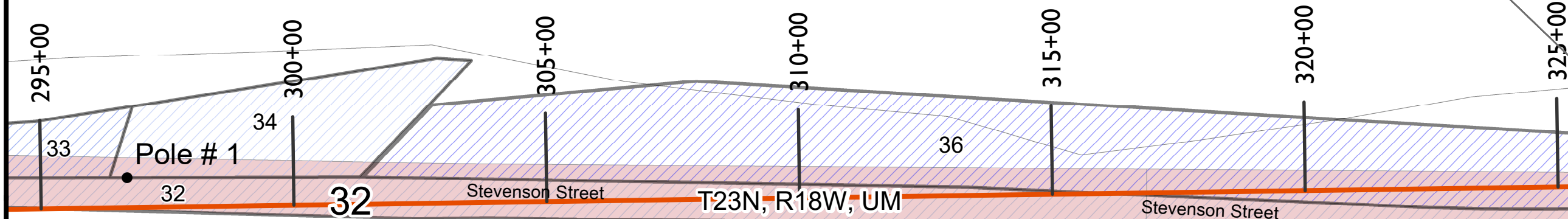
TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.
RESERVATION LINE _____
RESERVATION LINE (Actual Survey) _____
TRACT BOUNDARY LINE _____
TRACT NUMBER _____
CONTOUR LINE _____
DISPOSAL _____
EXTENDED OWNERSHIP LINE _____



Legend

- Survey_Baseline_8400
- Power Poles to Relocated
- NSB Structures
- Feature

Projec Tract, Property ID, Feature

- 32, ROW Stevenson St Between 275 -385, Revetment/Raise Road
- 33, R-001-191-01, Revetment/Raise Road
- 34, R-001-191-02, Revetment/Raise Road
- 36, Lot 9 USS 5253, Revetment/Raise Road

REAL ESTATE REQUIRED - PARCELS AFFECTED

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

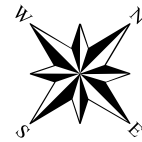
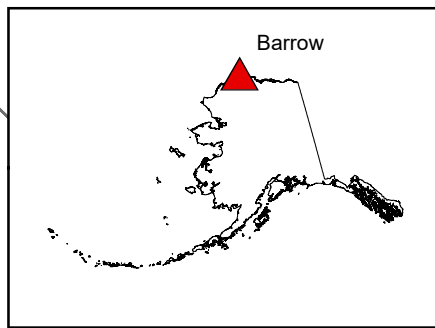
Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK
REAL ESTATE
BARROW ALASKA
COASTAL EROSION PROJECT
CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE
AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET **5** OF **12** DRAWING NO. _____

DATE	REVISIONS

EXHIBIT B



7	8	9	16	15	14	13	18
18	17	21	22	T23N, R17W, UM	23	24	
19	20		T23N, R18W, UM				
30	29	28	27	26	25	30	
31	32	33	34	35	36		
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA

ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

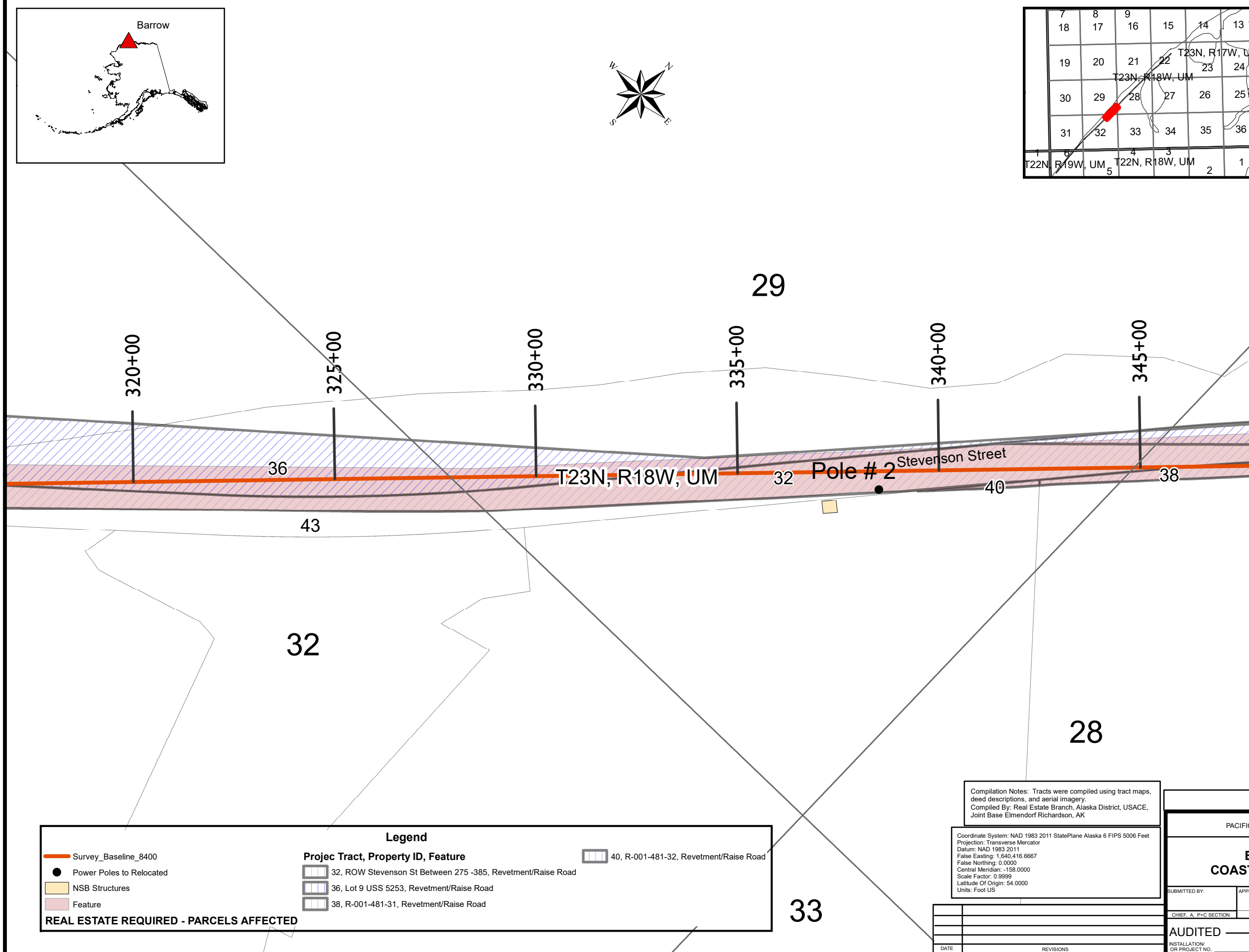
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Legend

- Survey_Baseline_8400
- Power Poles to Relocated
- NSB Structures
- Feature

Projec Tract, Property ID, Feature

- 32, ROW Stevenson St Between 275 -385, Revetment/Raise Road
- 36, Lot 9 USS 5253, Revetment/Raise Road
- 38, R-001-481-31, Revetment/Raise Road
- 40, R-001-481-32, Revetment/Raise Road

REAL ESTATE REQUIRED - PARCELS AFFECTED

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

DATE	REVISIONS

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

**REAL ESTATE
BARROW ALASKA
COASTAL EROSION PROJECT
CIVIL WORKS**

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____

CHIEF, A. P+C SECTION _____ CHIEF, REAL ESTATE OFFICE _____

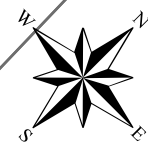
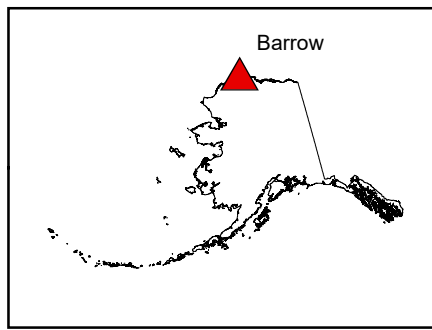
AUDITED _____

INSTALLATION/ OR PROJECT NO. _____

SCALE 125 62.5 0 125 Feet

SHEET 6 OF 12 DRAWING NO. _____

EXHIBIT B



7	8	9	16	15	14	13	18
18	17	21	22	T23N, R17W, UM	23	24	
19	20		T23N, R18W, UM				
30	29	28	27	26	25	30	
31	32	33	34	35	36		
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

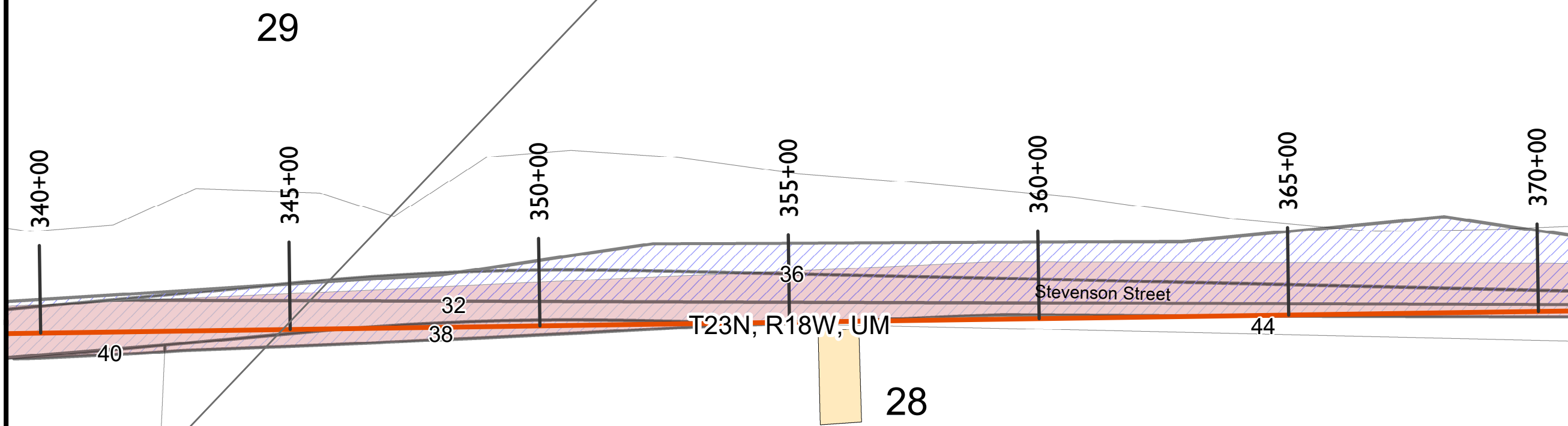
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Legend

Survey_Baseline_8400

Power Poles to Relocated

NSB Structures

Feature

Projec Tract, Property ID, Feature

32, ROW Stevenson St Between 275 -385, Retevment/Raise Road

36, Lot 9 USS 5253, Retevment/Raise Road

38, R-001-481-31, Retevment/Raise Road

40, R-001-481-32, Retevment/Raise Road

REAL ESTATE REQUIRED - PARCELS AFFECTED

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

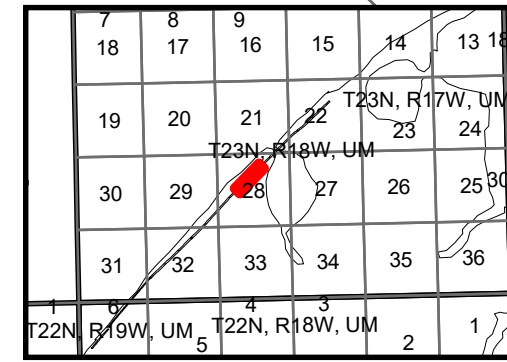
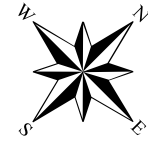
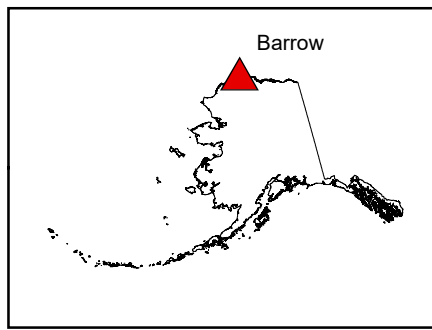
SUBMITTED BY: _____ APPROVED BY: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET 7 OF 12 DRAWING NO. _____

DATE	REVISIONS

EXHIBIT B

33



PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

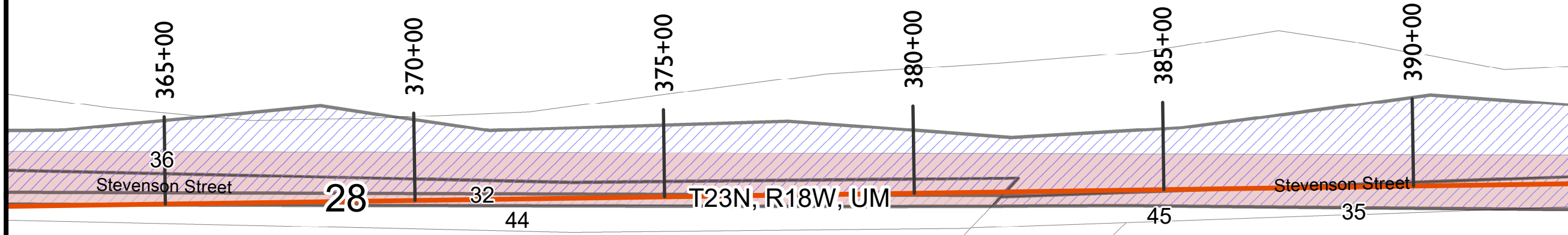
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf-Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

Legend

- Survey_Baseline_8400
- Power Poles to Relocated
- NSB Structures
- Feature

Projec Tract, Property ID, Feature

- 32, ROW Stevenson St Between 275 -385, Revetment/Raise Road
- 35, ROW Stevenson St Between 380 - 460, Revetment/Raise Road
- 36, Lot 9 USS 5253, Revetment/Raise Road

REAL ESTATE REQUIRED - PARCELS AFFECTED

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

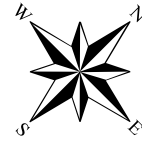
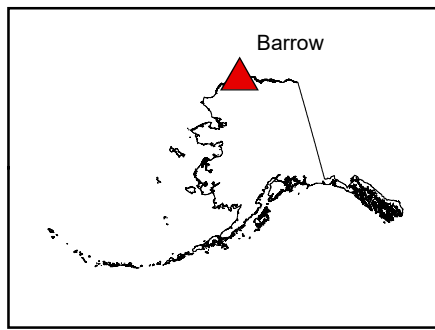
REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET 8 OF 12 DRAWING NO. _____

DATE	REVISIONS

EXHIBIT B



7	8	9	16	15	14	13	12
18	17	21	22	T23N, R17W, UM	23	24	
19	20	T23N, R18W, UM	27	26	25	24	
30	29	28	27	26	25	24	
31	32	33	34	35	36		
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

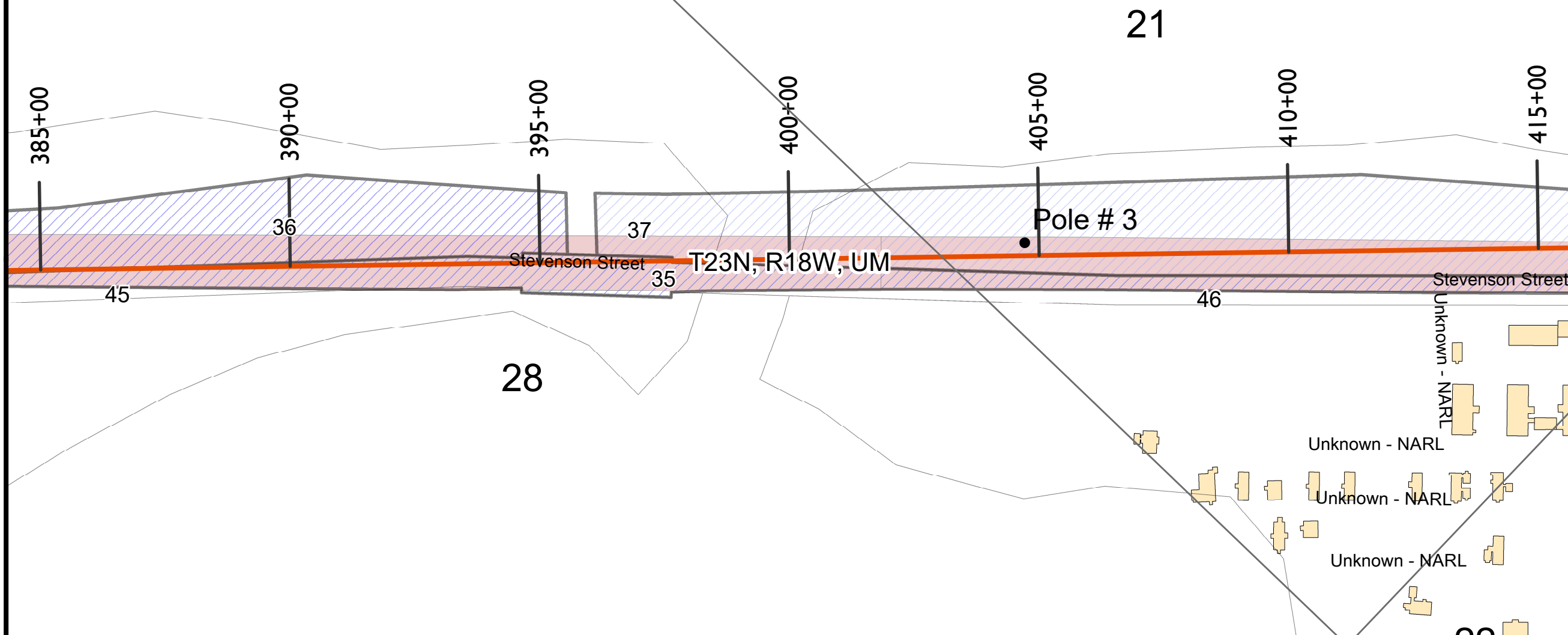
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Legend	
Survey_Baseline_8400	Projec Tract, Property ID, Feature
Power Poles to Relocated	35, ROW Stevenson St Between 380 - 460, Revetment/Raise Road
NSB Structures	36, Lot 9 USS 5253, Revetment/Raise Road
Feature	37, Lot 9 USS 5253, Revetment/Raise Road
REAL ESTATE REQUIRED - PARCELS AFFECTED	

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

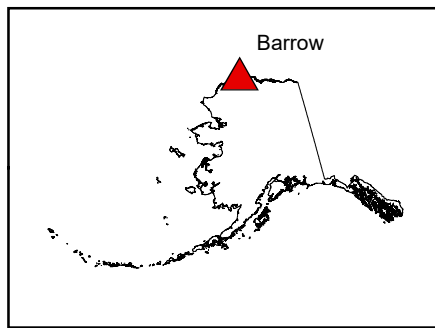
CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET 9 OF 12 DRAWING NO. _____

EXHIBIT B



7	8	9	16	15	14	13	18
19	20	21	22	T23N, R17W, UM	23	24	
30	29	28	T23N, R18W, UM	27	26	25	30
31	32	33	34	35	36		
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA

ARMY AREA
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

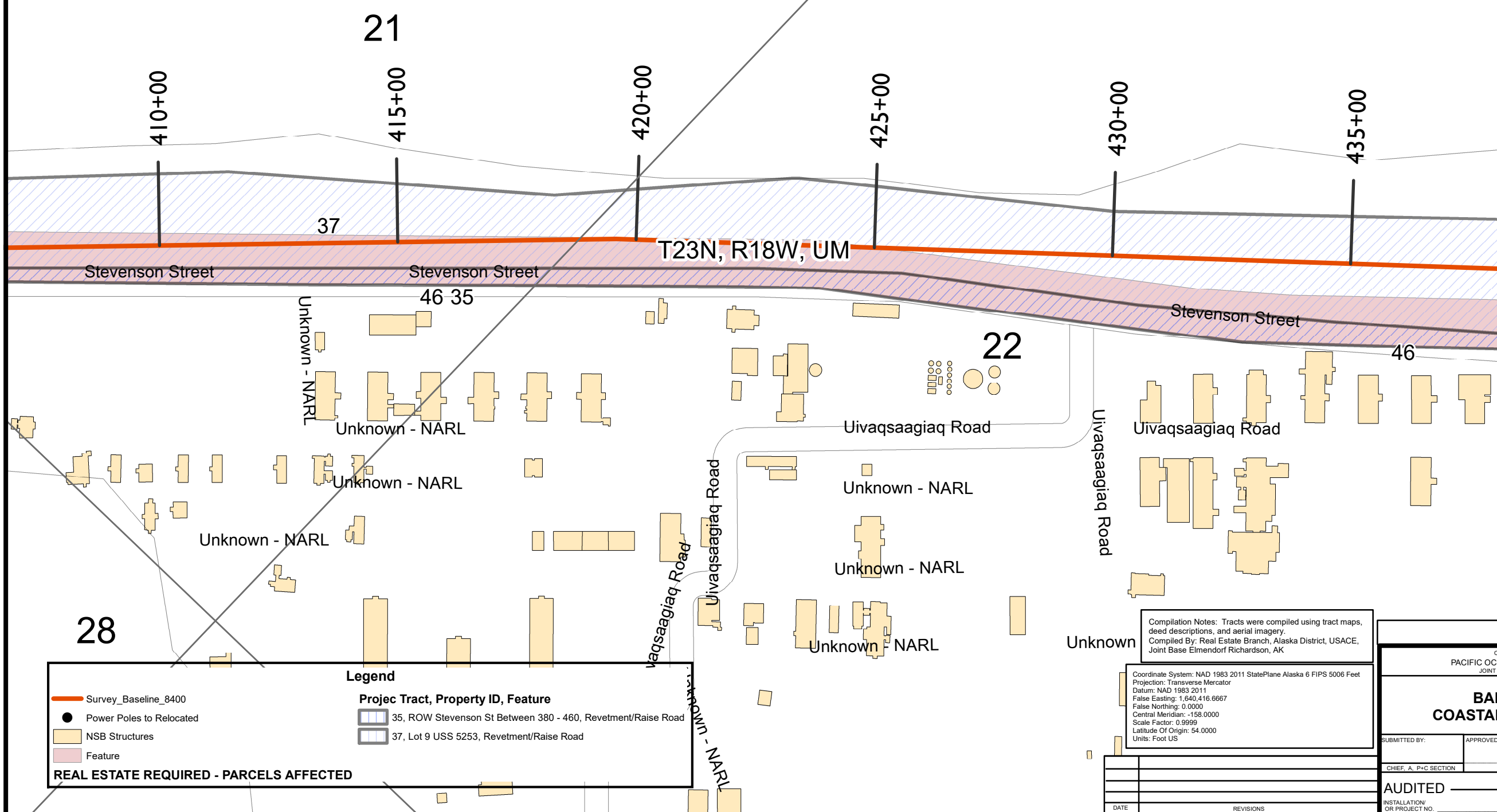
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE
- RESERVATION LINE (Actual Survey)
- TRACT BOUNDARY LINE
- TRACT NUMBER
- CONTOUR LINE
- DISPOSAL
- EXTENDED OWNERSHIP LINE



Legend

- Survey_Baseline_8400
- Power Poles to Relocated
- NSB Structures
- Feature

Projec Tract, Property ID, Feature

- 35, ROW Stevenson St Between 380 - 460, Revetment/Raise Road
- 37, Lot 9 USS 5253, Revetment/Raise Road

REAL ESTATE REQUIRED - PARCELS AFFECTED

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

**REAL ESTATE
BARROW ALASKA
COASTAL EROSION PROJECT
CIVIL WORKS**

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____

CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

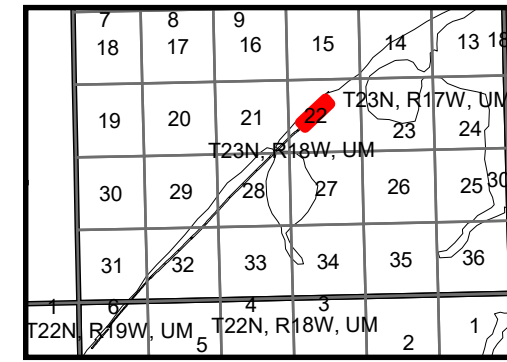
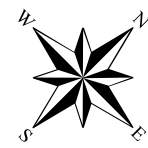
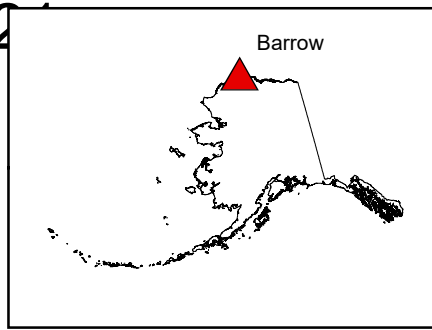
AUDITED _____

INSTALLATION/ OR PROJECT NO. _____

SCALE 125 62.5 0 125 Feet

SHEET **10** OF **12** DRAWING NO. _____

EXHIBIT B



PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE ALASKA
COUNTY NORTH SLOPE BOROUGH
DIVISION PACIFIC OCEAN
DISTRICT ALASKA
ARMY AREA _____
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS _____
STATE ROADS _____
FEDERAL ROADS _____
AIR LINES _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE _____
LESSER INTERESTS { _____

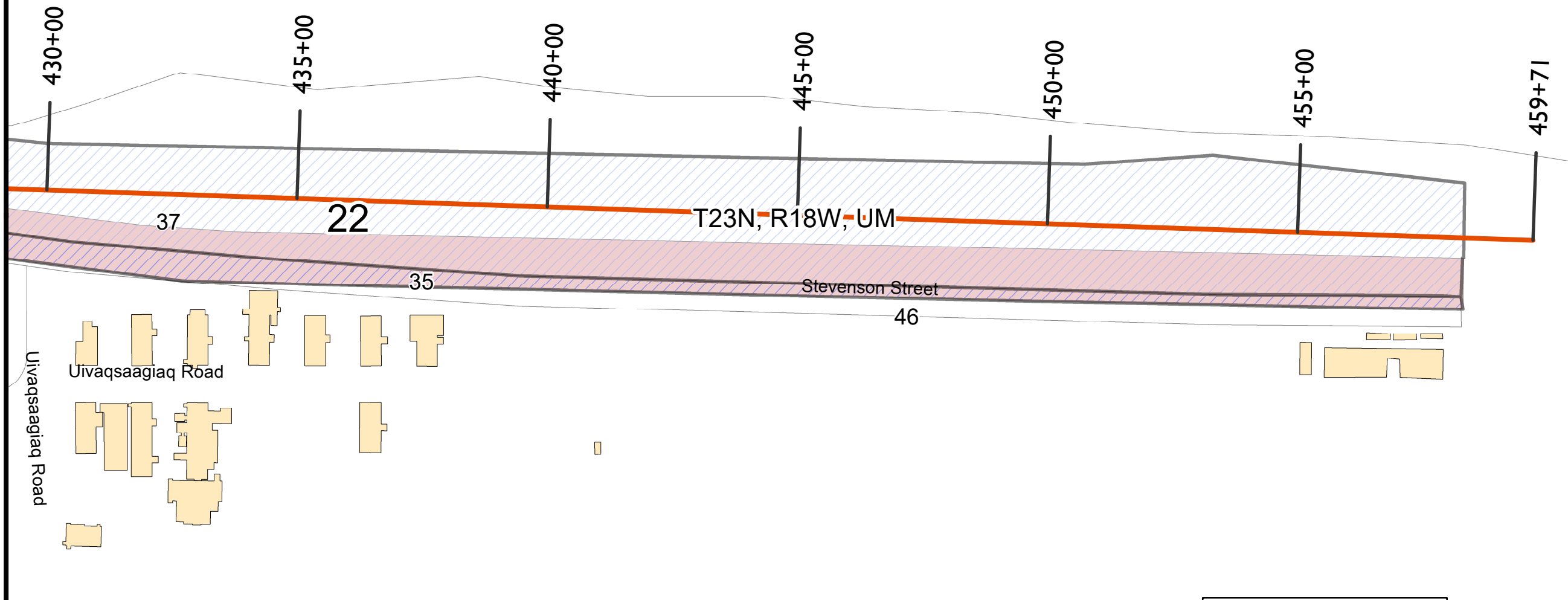
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED _____
LESSER INTERESTS TERM. _____
REASSIGNED _____
OTHER _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE _____
- RESERVATION LINE (Actual Survey) _____
- TRACT BOUNDARY LINE _____
- TRACT NUMBER _____
- CONTOUR LINE _____
- DISPOSAL _____
- EXTENDED OWNERSHIP LINE _____



Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

Legend

REAL ESTATE REQUIRED - PARCELS AFFECTED

- Survey_Baseline_8400
- Power Poles to Relocated
- NSB Structures
- Feature
- Projec Tract, Property ID, Feature
- 35, ROW Stevenson St Between 380 - 460, Revetment/Raise Road
- 37, Lot 9 USS 5253, Revetment/Raise Road

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

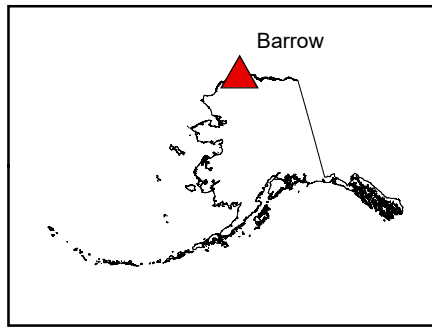
REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____
CHIEF, A. P+C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 125 62.5 0 125 Feet
SHEET **11** OF **12** DRAWING NO. _____

DATE	REVISIONS

EXHIBIT B



7	8	9	16	15	14	13	18
18	17	21	22	T23N, R17W, UM	23	24	
19	20	T23N, R18W, UM	27	26	25	30	
30	29	28	27	26	25	30	
31	32	33	34	35	36		
T22N, R19W, UM	5	4	3	2	1		

PROJECT MAP

DEPT. OF THE ARMY
USING SERVICE: CORPS OF ENGINEERS

LOCATION OF PROJECT

STATE: ALASKA
COUNTY: NORTH SLOPE BOROUGH
DIVISION: PACIFIC OCEAN
DISTRICT: ALASKA
ARMY AREA:
725 MILES N OF ANCHORAGE, AK
6 MILES S OF POINT BARROW, AK

TRANSPORTATION FACILITIES

RAILROADS: _____
STATE ROADS: _____
FEDERAL ROADS: _____
AIR LINES: _____

ACQUISITION

TOTAL ACRES ACQUIRED _____
FEE: _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFER { _____
LEASE: _____
LESSER INTERESTS { _____

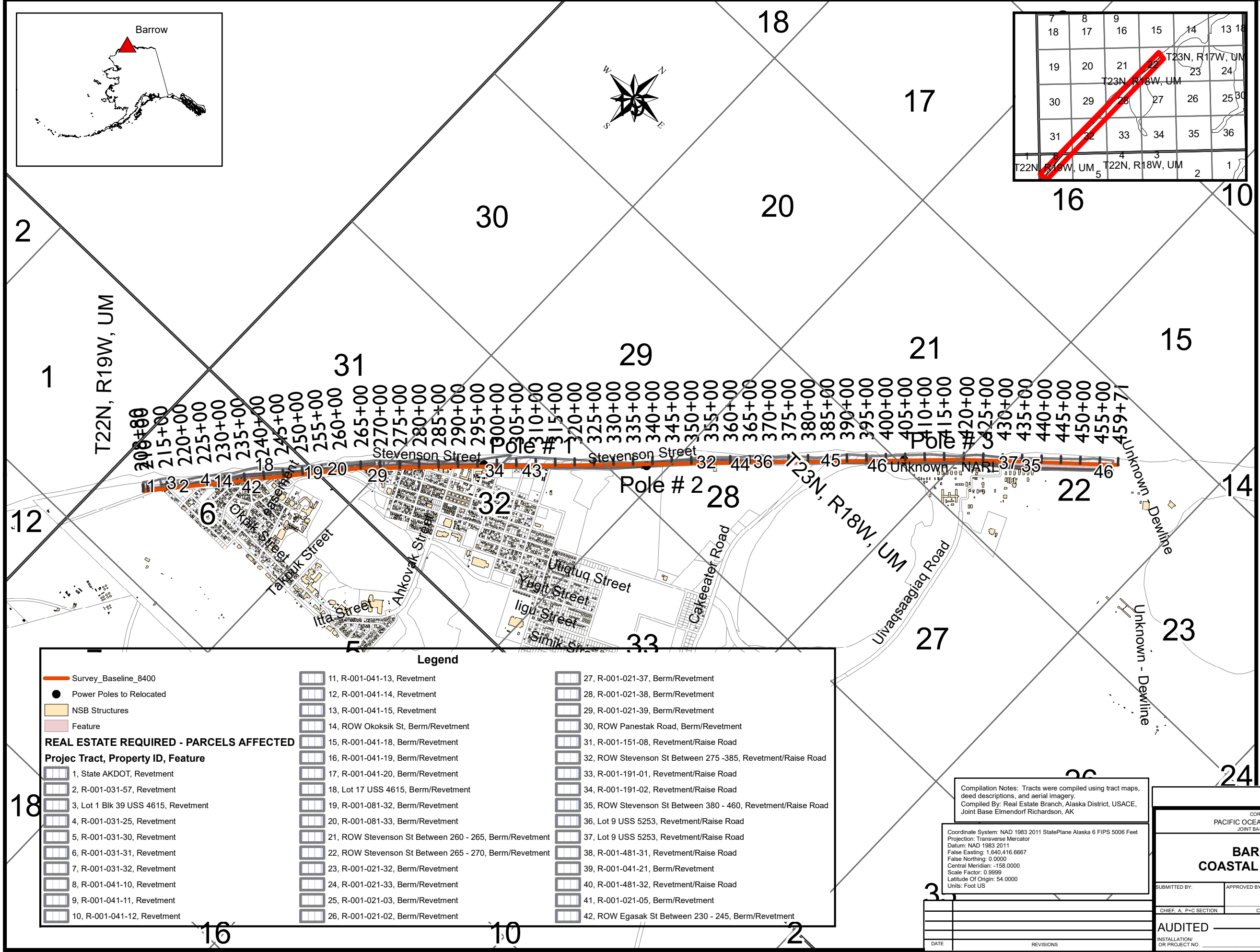
DISPOSAL

TOTAL ACRES DISPOSED OF _____
SOLD: _____
PUBLIC DOMAIN { WITHDRAWAL _____
USE PERMIT _____
USE PERMIT (OTHER THAN P.D.) _____
TRANSFERRED { _____
LEASES TERMINATED: _____
LESSER INTERESTS TERM: _____
REASSIGNED: _____
OTHER: _____

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN BELOW MAP SYMBOLS ARE STANDARD IN ARMY MAP SERVICE TECHNICAL MANUAL NO. 23.

- RESERVATION LINE
- RESERVATION LINE (Actual Survey)
- TRACT BOUNDARY LINE
- TRACT NUMBER
- CONTOUR LINE
- DISPOSAL
- EXTENDED OWNERSHIP LINE



Legend	
	Survey_Baseline_8400
	Power Poles to Relocated
	NSB Structures
	Feature
REAL ESTATE REQUIRED - PARCELS AFFECTED	
Projec Tract, Property ID, Feature	
	1, State AKDOT, Revetment
	2, R-001-031-57, Revetment
	3, Lot 1 Blk 39 USS 4615, Revetment
	4, R-001-031-25, Revetment
	5, R-001-031-30, Revetment
	6, R-001-031-31, Revetment
	7, R-001-031-32, Revetment
	8, R-001-041-10, Revetment
	9, R-001-041-11, Revetment
	10, R-001-041-12, Revetment
	11, R-001-041-13, Revetment
	12, R-001-041-14, Revetment
	13, R-001-041-15, Revetment
	14, ROW Okoksik St, Berm/Revetment
	15, R-001-041-18, Berm/Revetment
	16, R-001-041-19, Berm/Revetment
	17, R-001-041-20, Berm/Revetment
	18, Lot 17 USS 4615, Berm/Revetment
	19, R-001-081-32, Berm/Revetment
	20, R-001-081-33, Berm/Revetment
	21, ROW Stevenson St Between 260 - 265, Berm/Revetment
	22, ROW Stevenson St Between 265 - 270, Berm/Revetment
	23, R-001-021-32, Berm/Revetment
	24, R-001-021-33, Berm/Revetment
	25, R-001-021-03, Berm/Revetment
	26, R-001-021-02, Berm/Revetment
	27, R-001-021-37, Berm/Revetment
	28, R-001-021-38, Berm/Revetment
	29, R-001-021-39, Berm/Revetment
	30, ROW Panestak Road, Berm/Revetment
	31, R-001-151-08, Revetment/Raise Road
	32, ROW Stevenson St Between 275 - 385, Revetment/Raise Road
	33, R-001-191-01, Revetment/Raise Road
	34, R-001-191-02, Revetment/Raise Road
	35, ROW Stevenson St Between 380 - 460, Revetment/Raise Road
	36, Lot 9 USS 5253, Revetment/Raise Road
	37, Lot 9 USS 5253, Revetment/Raise Road
	38, R-001-481-31, Revetment/Raise Road
	39, R-001-041-21, Berm/Revetment
	40, R-001-481-32, Revetment/Raise Road
	41, R-001-021-05, Berm/Revetment
	42, ROW Egasak St Between 230 - 245, Berm/Revetment

Compilation Notes: Tracts were compiled using tract maps, deed descriptions, and aerial imagery.
Compiled By: Real Estate Branch, Alaska District, USACE, Joint Base Elmendorf Richardson, AK

Coordinate System: NAD 1983 2011 StatePlane Alaska 6 FIPS 5006 Feet
Projection: Transverse Mercator
Datum: NAD 1983 2011
False Easting: 1,640,416.6667
False Northing: 0.0000
Central Meridian: -158.0000
Scale Factor: 0.9999
Latitude Of Origin: 54.0000
Units: Foot US

CORPS OF ENGINEERS, U.S. ARMY
PACIFIC OCEAN DIVISION, ALASKA DISTRICT
JOINT BASE ELMENDORF-RICHARDSON, AK

REAL ESTATE BARROW ALASKA COASTAL EROSION PROJECT CIVIL WORKS

SUBMITTED BY: _____ APPROVED BY: _____ DATE: _____
CHIEF, A. P-C SECTION CHIEF, REAL ESTATE OFFICE

AUDITED _____
INSTALLATION/ OR PROJECT NO. _____
SCALE 1:250 0 1:250 Feet
SHEET 12 OF 12 DRAWING NO. _____

EXHIBIT B

EXHIBIT C

BOOK 0049 PAGE 012

WARRANTY DEED

Grantor, UKPEAGVIK INUPIAT CORPORATION, an Alaska Corporation, whose address is P. O. Box 427, Barrow, Alaska, 99723, for and in consideration of the sum of TEN DOLLARS (\$10.00) and other good and valuable consideration, particularly cancellation of a debt arising out of the exercise of a purchase option on the ground lease referenced below, the receipt and sufficiency of which is hereby acknowledged and confessed, CONVEYS and WARRANTS to the following Grantee:

NORTH SLOPE BOROUGH
P. O. Box 69
Barrow, Alaska 99723

all of its right, title, interest, estate and claim in and to the surface estate of that certain real property located in the State of Alaska and more particularly described as follows:

Tract "J-1" Browerville Addition No. 4 as described in Plat 86-13, filed in the Barrow Recording District.

SUBJECT TO all reservations, easements, and restrictions of record, and to encroachments ascertainable by physical survey or inspection of the property.

Through acceptance of this deed, Grantor and Grantee acknowledge the cancellation of that certain Ground Lease covering Tract "K" recorded in Book 39, page 669, Barrow Recording District through Grantee's exercise of Covenant Five of that Lease. Exercise of Covenant Five has resulted in the transfer of title to Tract "K" to Grantee along with the refund of certain monies which form a portion of the consideration given by Grantee to Grantor for the conveyance of the real property which is the subject of this deed.

Return To
North Slope Borough
PO Box 69
Barrow, Alaska 99723

WARRANTY DEED/ Page 1
ancsa.wd/dsc/tml

TO HAVE AND TO HOLD, the same, together with all and singular tenements, hereditaments and appurtenances and privileges belonging thereto, and all the right, title, interest, estate and claim whatsoever of the Grantor to the use and benefit of the Grantee, its successors and assigns forever.

DATED this 5th day of December, 1986.

UKPEAGVIK INUPIAT CORPORATION
By: Edith Vandenberg
Its: President

STATE OF ALASKA)
SECOND JUDICIAL DISTRICT)ss

The foregoing instrument was acknowledged before me this 5th day of December, 1986, by Edith Vandenberg the President of the Ukpeagvik Inupiat Corporation, an Alaskan corporation, on behalf of the corporation.

Paul Mendenhall
Notary Public in and for Alaska
My Commission Expires: 6/27



87-0138
13-

RECORDED ~~444~~
BARROW RECORDING
DISTRICT

FEB 11 2 06 PM '87
REQUESTED BY NORTH SLOPE
ADDRESS BARROW
Rtn to

