

1. Component NAVY		FY 2019 MILITARY CONSTRUCTION PROGRAM					2. Date 05 FEB 2018				
3. Installation and Location: N68436 NAVAL BASE KITSAP BREMERTON WA BANGOR, WASHINGTON				4. Command Commander Navy Installations Command		5. Area Const Cost Index 1.12					
6. Personnel		PERMANENT			STUDENTS			SUPPORT		TOTAL	
Strength:		OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
A. As Of 09-30-17		620	6212	2416	0	94	0	33	34	0	9409
B. End FY 2022		602	5952	2416	0	94	0	33	34	0	9131
7. INVENTORY DATA (\$000)											
A. TOTAL ACREAGE ..(13649 Acres)											
B. INVENTORY AS OF 30 SEP 2017 4,267,844											
C. AUTHORIZATION NOT YET IN INVENTORY 486,992											
D. AUTHORIZATION REQUESTED IN THIS PROGRAM 88,960											
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM 0											
F. PLANNED IN NEXT THREE PROGRAM YEARS 0											
G. REMAINING DEFICIENCY 932,198											
H. GRAND TOTAL 5,775,994											
8. Projects Requested In This Program											
<u>Cat</u>		<u>Design Status</u>				<u>Cost</u>					
<u>Code</u>	<u>Project Title</u>	<u>Start</u>	<u>Complete</u>	<u>Scope</u>	<u>(\$000)</u>						
15120	Pier and Maintenance Facility	10/2016	10/2018	0 LS	88,960						
TOTAL										88,960	
9. Future Projects:											
A. Included In The Following Program:											
B. Major Planned Next Three Years:											
C. R&M Unfunded Requirement (\$000):										2,440,340	
10. Mission or Major Functions:											
Supports the Trident Submarine Launched Ballistic Missile System by maintaining and operating facilities for administration and personnel support for operations of the submarine force. Homeport for guided missile submarines (SSGN) and ballistic missile submarines (SSBN). Provides logistics support to other activities in the area and acts as host for the following: Trident Submarine Group, Puget Sound Navy Shipyard and Intermediate Maintenance Facility, Trident Training Facility, Strategic Weapons Facility, Pacific, Marine Corps Security Force.											
11. Outstanding Pollution and Safety Deficiencies (\$000):											
A. Pollution Abatement(*):										0	
B. Occupational Safety and Health(OSH)(#):										0	

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5. Program Element 0212176N	6. Category Code 15120	7. Project Number P907	8. Project Cost (\$000) 88,960	
9. COST ESTIMATES				
Item	UM	Quantity	Unit Cost	Cost(\$000)
PIER AND MAINTENANCE FACILITY	LS			57,150
TPS PIER CC15120 (28,265SF)	m2	2,625.91	10,160.2	(26,680)
ACCESS TRESTLE TO PIER CC15190 (16,640SF)	m2	1,545.91	11,505.53	(17,790)
BOAT SHOP CC21358 (18,290SF)	m2	1,699.2	4,469.22	(7,590)
SMALL CRAFT FUELING STATION CC12220	OL	4	148,377.56	(590)
SMALL CRAFT READY FUEL STORAGE CC12230 (40,000GA)	L	151,416.47	8.45	(1,280)
BUILT-IN EQUIPMENT	LS			(220)
SPECIAL COSTS	LS			(2,510)
OPERATION & MAINTENANCE SUPP INFO (OMSI)	LS			(440)
SUSTAINABILITY AND ENERGY FEATURES	LS			(50)
SUPPORTING FACILITIES				23,000
SPECIAL CONSTRUCTION FEATURES	LS			(2,320)
SITE PREPARATIONS	LS			(1,220)
SPECIAL FOUNDATION FEATURES	LS			(490)
PAVING AND SITE IMPROVEMENTS	LS			(770)
ANTI-TERRORISM/FORCE PROTECTION	LS			(50)
ELECTRICAL UTILITIES	LS			(450)
MECHANICAL UTILITIES	LS			(1,320)
ENVIRONMENTAL MITIGATION	LS			(16,380)
SUBTOTAL				80,150
CONTINGENCY (5%)				4,010
TOTAL CONTRACT COST				84,160
SIOH (5.7%)				4,800
SUBTOTAL				88,960
TOTAL REQUEST ROUNDED				88,960
TOTAL REQUEST				88,960
EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)				(2,107)

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<p>10. Description of Proposed Construction:</p> <p>Constructs a pile-supported reinforced concrete berthing pier for two 250-foot Blocking Vessels (BVs) with integrated wave screens to protect adjacent shoreline from short period waves, underside pier utilities from floating debris, and to provide shelter for Transit Protection System (TPS) small craft during severe weather conditions.</p> <p>Constructs a pile-supported reinforced concrete access trestle to the pier.</p> <p>Constructs a steel framed, metal insulated paneled wall and roof pre-engineered building boat shop with high bay, mezzanine, pedestal jib cranes and reinforced concrete foundation, slab on grade capable of supporting approximately 30 small craft. The facility will include personnel support spaces with associated information systems. Project includes facility elements to support relocation and installation of existing equipment.</p> <p>Constructs a small craft fueling station to dispense diesel fuel marine with four outlets, dispensing pedestal-type commercial pumps, piping to fuel storage tank, hoses, floodlights and grounding devices, electrical power, and fire protection.</p> <p>Constructs a small craft ready fuel storage tank and necessary infrastructure required to support functions and operations at each facility.</p> <p>This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations, and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings.</p> <p>Special costs include Post Construction Contract Award Services (PCAS). In addition, this item includes the costs for environmental mitigation PCAS and building control systems. Costs include Washington State gross sales receipt tax.</p> <p>Operations and maintenance support information (OMSI) is included in this project.</p> <p>Department of Defense and Department of the Navy principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development (LID) will be included in the design and construction of this project as appropriate.</p>				

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<p>Special construction features include a wave attenuation system mounted to the underside of the trestle and pier deck, port security barrier mooring points and a cathodic protection system.</p> <p>Site preparation includes clearing, grubbing, and logging, site grading, excavation, and selective demolition.</p> <p>Mechanical utilities include potable water lines, sanitary sewer lines, fire protection systems, storm water lines, and an industrial waste collection system.</p> <p>Environmental mitigation in compliance with state and local law includes sound mitigation to protect mammal, fish and water fowl, permits and monitoring, biological and archeological monitoring, protection of tribal trust resources and assets, environmental restoration, habitat conservation, in-lieu fee program, shoreline protection and restoration, and deck features and lighting for fish habitat concerns.</p> <p>Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.</p>																						
<table border="0"> <tr> <td data-bbox="191 1304 492 1333">11. Requirement:</td> <td data-bbox="492 1304 1049 1333">Adequate:</td> <td data-bbox="1049 1304 1433 1333">Substandard:</td> </tr> <tr> <td colspan="3" data-bbox="191 1346 1433 1375">PROJECT:</td> </tr> <tr> <td colspan="3" data-bbox="191 1375 1433 1493"> Constructs a general purpose berthing pier and trestle with controlled access, vessel maintenance facility with parking, fuel distribution and storage system. (New Mission) </td> </tr> <tr> <td colspan="3" data-bbox="191 1526 1433 1556">REQUIREMENT:</td> </tr> <tr> <td colspan="3" data-bbox="191 1556 1433 1812"> Facilities are required to support the Maritime Force Protection Unit (MFPU) Bangor's operational mission to provide security escort for submarines through protection by presence and defense by force during transit between homeport and the surface/dive points in the Strait of Juan de Fuca and test range. This mission supports the stand-up of the Nuclear Weapons Security (NWS) Program mission as mandated by National Security Presidential Directive and Instructions. </td> </tr> <tr> <td colspan="3" data-bbox="191 1812 1433 1950">CURRENT SITUATION:</td> </tr> </table>					11. Requirement:	Adequate:	Substandard:	PROJECT:			Constructs a general purpose berthing pier and trestle with controlled access, vessel maintenance facility with parking, fuel distribution and storage system. (New Mission)			REQUIREMENT:			Facilities are required to support the Maritime Force Protection Unit (MFPU) Bangor's operational mission to provide security escort for submarines through protection by presence and defense by force during transit between homeport and the surface/dive points in the Strait of Juan de Fuca and test range. This mission supports the stand-up of the Nuclear Weapons Security (NWS) Program mission as mandated by National Security Presidential Directive and Instructions.			CURRENT SITUATION:		
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<p>Mission requirements have outpaced the ability to provide adequate facilities to support the TPS mission at Bangor. As a result, extensive berth shifts and unnecessary days spent away from homeport occur when no pier space is available. Bangor berthing is required approximately 253 days per year.</p> <p>The BVs moor at the Marginal North Pier in the waterfront restricted area, if space is available, under naval ordnance safety and security activity waiver conditions. The explosives safety quantity-distance arc from explosives handling wharf and the increase in operational tempo multiplies the frequency of encumbrance at this berth.</p> <p>Small craft maintenance function is currently being executed in three facilities and seven temporary storage structures near the head of service pier.</p> <p>Diesel fuel is provided using a converted Ship Waste Oily Barge (SWOB). The authorization to continue to operate the SWOB in this capacity is under an interim authority to operate (IATO) for one year. The IATO is renewable annually and contingent on implementation of good custodianship measures and approximately \$800K is spent on eight to fourteen week dry-docking overhaul and tank preservation inspection, survey, and repair operations.</p> <p>The SWOB is currently being moored inboard on the interim floats added to K/B Dock adjacent to the TPS vessel berths to ensure crew endurance limits can be maintained. It occupies moorings originally intended for two vessels. Resupply operations require it to be towed from its moored location to Defense Logistics Agency Manchester and back, a 12 hour evolution. The feasibility of continued use of the SWOB as a fuel container due to environmental concerns is evaluated annually.</p> <p>This project is not sited in a 100-year flood plain.</p> <p>IMPACT IF NOT PROVIDED:</p> <p>Full operational capability of the TPS mission cannot be executed. NWS posture will continue to fall short of DoD directives and requirements. The 250-foot BVs will remain in a nomadic state with continued berth shifts and days spent away from homeport, due to lack of adequate, dedicated pier space.</p> <p>Maintenance will continue to be performed in multiple facilities that are approximately 47 percent of the required space. Inadequately sized facilities will continue to negatively impact maintenance schedules, which</p>				

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jeopardizes the readiness conditions of escort vessels, create operational inefficiencies, and compound shortfalls.				
MFPU will continue fueling operations using a converted fuel system that was designed for temporary use.				
12. Supplemental Data:				
A. Estimated Design Data:				
1. Status:				
(A) Date design or Parametric Cost Estimate started				10/2016
(B) Date 35% Design or Parametric Cost Estimate complete				07/2017
(C) Date design completed				10/2018
(D) Percent completed as of September 2017				15%
(E) Percent completed as of January 2018				35%
(F) Type of design contract			Design Bid Build	
(G) Parametric Estimate used to develop cost				Yes
(H) Energy Study/Life Cycle Analysis performed				Yes
2. Basis:				
(A) Standard or Definitive Design				No
(B) Where design was previously used				N/A
3. Total Cost (C) = (A) + (B) = (D) + (E):				
(A) Production of plans and specifications				\$5,338
(B) All other design costs				\$2,669
(C) Total				\$8,007
(D) Contract				\$6,450
(E) In-house				\$1,557
4. Contract award:				03/2019
5. Construction start:				04/2019
6. Construction complete:				02/2021
B. Equipment associated with this project which will be provided from other appropriations:				
<u>Equipment</u>		<u>Procuring</u>	<u>FY Approp</u>	
<u>Nomenclature</u>		<u>Approp</u>	<u>or Requested</u>	<u>Cost (\$000)</u>
Collateral Equipment		OMN	2020	74
Com/Data		OMN	2020	200
IDS		OMN	2020	50
Pier Modular Firing Positions		OMN	2020	180
Port Security Barrier NEW		OMN	2020	150
Port Security Barrier Relocation		OMN	2020	953
Smart Grid Equipment		OMN	2020	500
JOINT USE CERTIFICATION:				
The Regional Commander certifies that this project has been considered for				

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<p>joint use potential. Unilateral Construction is recommended. This is an installation utility/infrastructure project and does not qualify for joint use at this location, however, all tenants on this installation are benefited by this project.</p>				
<p>Activity POC: Project Development Lead Phone No: 360 396-0074</p>				