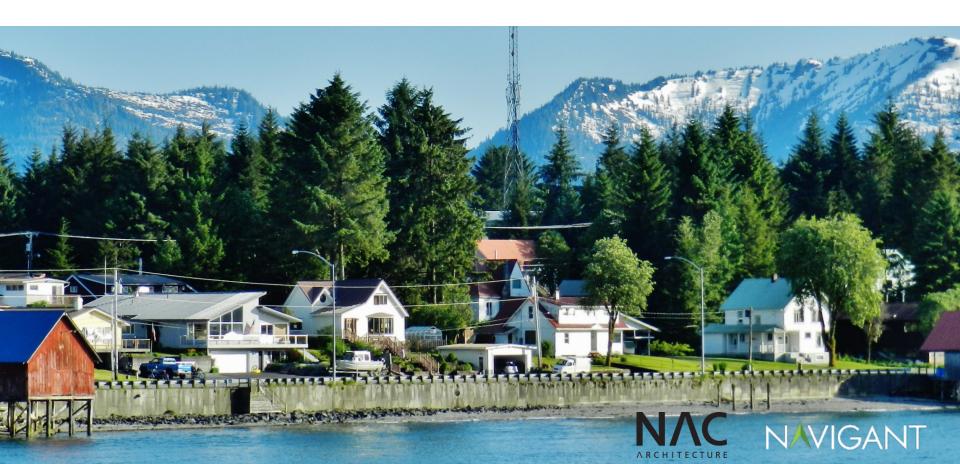
PETERSBURG MEDICAL CENTERMASTER PLAN



MASTER PLAN OBJECTIVE

Determine how Petersburg Medical Center can remain a viable partner and provide the best possible community healthcare well into the future.



MASTER PLAN TASKS

- Structural Analysis of the Existing Facility
- Inundation Study
- Debt Capacity Analysis
- Market and Service Line Analysis
- Numeric Space Program to Quantify Departmental Needs
- Conceptual Block Diagrams for each site
- Comparative Cost Estimates for each Option

BUILD ON PAST WORK

Review the accumulated body of healthcare data including:

- PMC Performance Improvement Report 2006
- Petersburgh Mental Health MAPP Report 2013
- PMC Facility Condition Assessment 2015
- Community Health Needs Assessment 2015
- Petersburg Borough Comprehensive Plan Update 2016
- Community Needs Assessment-Forces of Change 2018
- PMC Strategic Plan 2019

Completed – Seismic Analysis of the Existing Facility

Engaged KPFF Engineers to perform an ASCE 41 Tier 1 Seismic Evaluation of the existing hospital, based on review of the available documents and a visual inspection of the facility. Per the evaluation standards the following potential deficiencies were identified:

- Concrete shear wall foundations at the LTC Wing
- Steel moment frames at the Hospital Building
- Attic diaphragms at both the LTC and Hospital

Completed – Inundation Study

Engaged Herrera Associates to perform an inundation analysis focused on the potential for tsunamis to inundate and impact the existing Petersburg Medical Center.

The summary conclusion is the threat of inundation to the existing PMC campus is extremely low. Though alternative sites near the airport offer a modest reduction in risk due to higher elevation the advantage is rendered moot by the impact of the very unlikely form of tsunami that could be generated by a large flank collapse of Petersburg Mountain.

Completed - Market Assessment, PMC Internal Assessment, Demand Modeling, Financial Projections and Debt Capacity Analysis



Completed - Market Assessment Petersburg Service Area

- Slow population increase, but 3% increase in 65+ in the next 5 years
- Inpatient Use Rates projected to grow less than 1% per year
- Outpatient volume will increase slightly more than inpatient
- No direct competition for primary care, urgent or ER care, inpatient services
- Direct competitors (or potential collaborators) for chronic care management and post acute care include Wrangell, Ketchikan, Juneau, and Swedish and Virginia Mason in Seattle.
- Lab and imaging expected to grow significantly over the next 5-10 years
- Most Imaging/Diagnostic volume will increase, but MRI expected to decline
- % Medicare patients expected to grow in line with aging population
- Number of privately insured expected to decrease by 5% over 10 years

Completed – PMC Internal Assessment

- General Medicine, Gastroenterology, Behavioral Health, and Cardiac services represent the highest inpatient service lines
- Gastroenterology, Nephrology, Substance Abuse, and Pulmonology represent the largest % of inpatient volume
- CT, Physical Therapy, Home Health and treatment room visits have shown recent significant growth
- Majority of inpatient days at PMC are Long Term Care

Completed – Demand Modeling

- Forecast suggests that current 12 acute care beds is sufficient
- Current average daily census (ADC) at the 15 bed Long Term Care SNF is 13.2, suggesting that it is at or near capacity.
- Low number of SNF beds in Alaska suggests there is unmet need.
- Forecast is that the SNF could support growth to 20 beds by 2029.
- Projected volumes in ancillary services can be met with a single room for:

CT Mammography

Ultrasound X-Ray

DEXA Bone Density
ED (including observation)

Outpatient Surgery Endoscopy

Completed – Financial Projections & Debt Capacity

- FY20 Budget used as base year for financial projections
- Budget is break even from a total margin perspective
- Focus on how interest payments will affect operating income/margin and how easily PMC can afford the debt service
- Assumed that capital project will be entirely funded with debt, over a 30-year term at 5.5% interest
- Model assumes no additional debt and limited capital spending over the term
- Assumed days cash on hand will slowly build in a positive trajectory
- Estimate of PMC's Debt Capacity is \$5.0M

Fundamental and Preferred Services

- Long Term Care Beds 18
- Acute Care Beds -12
- General Surgery/Endoscopy
- OB/Birthing Services
- Imaging including:
 - CT, X-ray, Ultrasound
 - Mammography, DEXA
 - Echocardiography, C-Arm
 - Future MRI
- Inpatient Behavioral Health
- Emergency Care

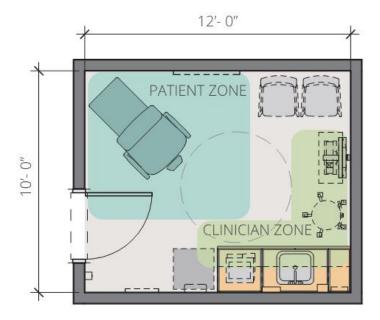
- Physical and Occupational Therap
- Acupuncture, Massage
- Integrated Care/Wellness Counseling
- Home Health, Elder Care
- Women's Health
- Specialties including
 - Dental, Audiology, cardiology
 - Optometry, Ophthalmology
 - Dermatology, OB-Gyn, ENT
- Psychiatry/Counseling
- Cancer Care

Numeric Space Program – Patient Room Template



350-400 SF

Numeric Space Program – Exam Room Template



120 SF

Completed – Numeric Space Program

		EX	KISTING	PR			
	SPACE	NSF	GF	DSF	NSF	GF	DSF
EPART	MENTS						
	MAIN ENTRY RECEPTION	875	1.10	966	2,525	1.15	2,904
	ADMINISTRATION	2,183	1.18	2,578	1,200	1.35	1,620
	INFORMATION TECHNOLOGY	0	0	0	1,140	1.25	1,425
	BUSINESS/MED. RECORDS	884	1.19	1,051	1,120	1.25	1,400
	LONG TERM CARE	4,430	1.38	6,094	8,460	1.50	12,690
	CLINIC	2,736	1.95	5,342	6,430	1.40	9,002
	ACUTE CARE	3,578	1.20	4,295	5,990	1.20	7,188
	EMERGENCY DEPARTMENT	954	1.10	1,053	1,440	1.50	2,160
	LABORATORY	1,683	1.12	1,881	2,060	1.25	2,575
	IMAGING	1,437	1.48	2,126	3,470	1.50	5,205
	PHARMACY	117	1.00	117	640	1.20	768
	SURGERY	1,045	1.46	1,522	1,810	1.60	2,896
	CENTRAL STERILE	480	1.09	523	760	1.30	988
	PHYSICAL THERAPY	1,096	1.14	1,253	2,682	1.25	3,353
	HOME HEALTH	1,672	1.44	2,416	440	1.40	616
	MAINTENANCE	2,376	1.26	3,000	2,376	1.15	2,580
	DIETARY	1,656	1.21	2,000	2,940	1.30	3,822
	CENTRAL SUPPLY	5,012	1.20	6,000	4,840	1.30	6,292
	OTHER SUPPORT SPACES	4,660	0.00	0	0	0.00	0
	TOTAL DEPARTMENT GROSS SQUARE F		36,217		61,191		
	Building (1.35			1.30	
	TOTAL DEPARTMENT GROSS SQUARE F		49,000			79,549	

BUILDING GROSSING FACTOR

Exterior walls, public corridors, mechanical and electrical services, stairs and elevators

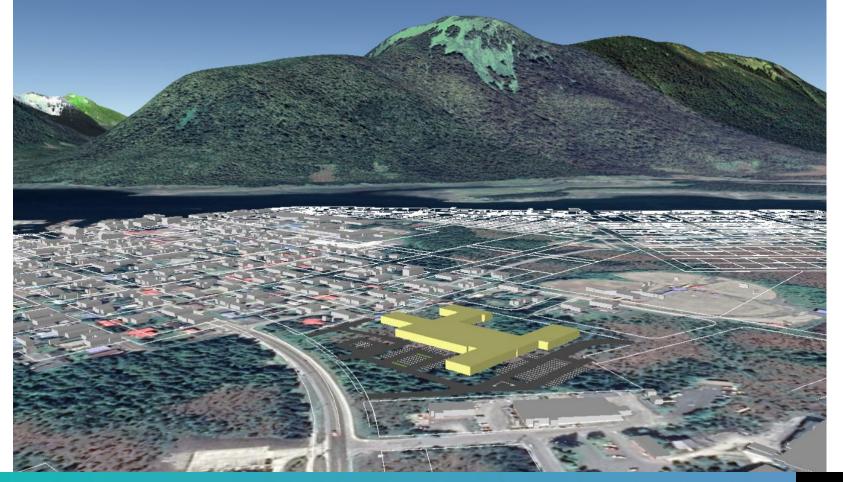


Site Selection Criteria Higher scores indicate a relative advantage of the site

Criteria	Existing	North	South	Excel	North
	In Town	Haugen	Haugen	Street	Eighth
Access to Utilities	5	3	5	1	1
2. Proximity to Roads	5	5	5	1	1
Site Elevation/Muskeg Risk	5	3	1	3	3
4. Proximity to Residential	3	1	1	3	3
5. Zoning Designation	3	1	3	1	3
Existing Use Displaced	-7	5	5	5	5
7. Structures to Demolish	-3	3	3	3	3
8. Access to Views and Sunlight	2	2	3	3	3
9. Close to Downtown	5	3	3	1	1
10. Size	1	5	5	3	3
Total Score	21	28	34	24	26

Completed- Site Diagrams and Conceptual Modeling





Completed- Site Diagrams and Conceptual Modeling





Site Diagram – Downtown



Downtown Scheme - Ground/Basement Floor

Petersburg Medical Center Master Plan / Pre-Design Study



Site Diagram – Downtown



Downtown Scheme - First Floor

Petersburg Medical Center Master Plan / Pre-Design Study



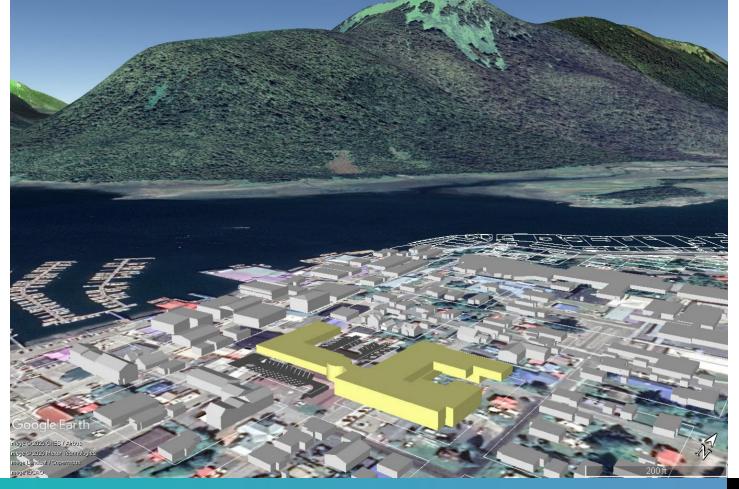
Site Diagram – Downtown



Downtown Scheme - Second Floor

Petersburg Medical Center Master Plan / Pre-Design Study





Completed - Comparative Cost Estimates

Name and ASE activities and		Greenfield			Greenfield				Downtown				
Cost Element	_	Scheme 7A		Scheme 7B					eme				
		Building		Site		Building		Site		Building		Site	
			72,463 SF		325,000 SF		80,170 SF		325,000 SF		95,414 SF	1	142,000 SF
Direct Costs													
Construction		\$	31,436,581	\$	5,482,655	\$	33,420,923	\$	5,223,434	\$	38,965,197	\$	5,236,493
Margins & Adjustments													
Location Factor	25.0%	\$	7,859,145	\$	1,370,664	\$	8,355,231	\$	1,305,859	\$	9,741,299	\$	1,309,123
General Conditions	7.5%	\$	2,947,179	\$	513,999	\$	3,133,211	\$	489,697	\$	3,652,987	\$	490,921
Design Contingency - Building	8.0%	\$	3,379,432			\$	3,592,749			\$	4,188,759		
Design Contingency - Site	15.0%			\$	1,105,097			\$	1,052,848			\$	1,055,481
MEP Market Contingency	2.6%	\$	1,173,561			\$	1,253,535			\$	1,439,339		
Contractor's OH & Profit	7.5%	\$	3,509,692	\$	635,431	\$	3,731,673	\$	605,388	\$	4,349,069	\$	606,902
Escalation to NTP	8.4%	\$	4,225,670	\$	765,059	\$	4,492,936	\$	728,887	\$	5,236,279	\$	730,709
Per Diem Imported Labor	2.5%	\$	1,363,282	\$	246,823	\$	1,449,505	\$	235,153	\$	1,689,323	\$	235,741
Total Cos	t	\$	55,894,542	\$	10,119,727	\$	59,429,763	\$	9,641,265	\$	69,262,252	\$	9,665,370
Total Estimated Construction Cos	t	\$	66,014,269			\$	69,071,028	l		\$	78,927,622	l,	
Indirect Costs*		\$	26,405,708			\$	27,628,411			\$	31,571,049		
Total Project Cost		\$	92,419,977			\$	96,699,440			\$	110,498,670		

^{*} Indirect Costs include non-construction project related expenses such as site surveys, geotechnical investigation, design fees, plan review and permit fees, inspections, finance cost, moving expenses, and furniture, fixtures, and equipment. Indirect costs on hospitals can range from 30% to 50%.

Questions?



