





Manchester VAMC

# **Facility Planning Meeting**

1 Day Session November 30, 2017

Consulting & Cost Modeling



EBA Ernest Bland Associates, P.C.

Alpha Corporation | Affiliated Engineers, Inc.

# **Meeting Agenda**

10:15 Overview

Experience with VISN 1 FMP Process

SOW (Accelerated Process)

Discussion of Scenarios (Discuss basis)

10:30 Review of Planning Options

11:00 Comparison of Options

Advantages and Disadvantage

Cost

Schedule

11:30 Discussion

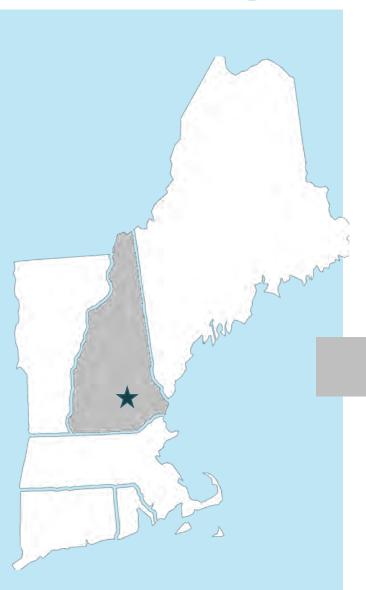
11:45 Adjourn







# VISN 1



Overview





Site visits and leadership interviews Identify
impacts to
Facility Master
Planning

Finalize approved adaptive workload

Identify space and facility needs Develop FMP Concepts Identify FMP Projects

Conduct site visits to survey facilities and space. Host discussions with leadership and user groups

Garner input
and consider
impact of
service line
strategy in the
context of
Facility
Master
Planning

Adapt facility workload projection to reflect approved strategic direction, which then feeds space calculator.

Analyze space gaps and, with facility input, identify facility needs and priorities.

Develop FMP concepts based on space programs and facility priorities.

Develop project lists and associated budget costs based on FMP concepts.









FMST's



Space Calculator





Space Programs

Surgery Program		
	Department Gross	Building Gross for area (x1.15)
Procedure Areas & Support (8 OR's)**	24,082	27,694
PACU (11 Positions)	5,729	6,588
Prep/ Stage II Recovery (18 Positions)	7,524	8,652
Staff Locker/ Lounge (incl. On-Call)***	4,777	5,494
Staff Admin & Education***	16,568	19,053
Surgery Reception/ Waiting	2,720	3,138
Total	61,400	70,619



Facility Master Plans





Project Lists for SCIP







# Purpose and Scope of Manchester Project

- To assist the VISN and the VISN Task Force in determining what may be the best alternative for improvements at the Manchester VAMC campus.
- Review Existing Site and Facility Conditions
- Determine Work Loads and Bed Numbers per VISN
- Develop Concept Options for each scenarios
  - Full Service Inpatient Hospital
  - Subacute Inpatient Hospital
  - Ambulatory Care Center only
  - Minimum Required Infrastructure Improvements "Bare Bones"
- Provide Order of Magnitude Impacts and Costs for each Option
  - Infrastructure Demolition
  - Parking Additions
  - Utilities Renovations
- Deliver Report in Summary to VISN December 2017





### **SOW / Direction**

The core objective of this study is to assist the VISN and the VISN Task Force in determining what may be the best alternative for improvements at the Manchester VAMC campus.

Through the process of on-site meetings and a series of interactive communications with an accelerated deliverable time frame.

Below is the summary of the initial direction given to the design team.

Initial direction and scope includes:

- Architectural Programming
- Architectural Planning
- Infrastructure Analysis/Impacts
- Develop cost model for alternative planning scenarios
- Coordinate with VISN 1 Task Force
- Review data provided by VISN





### **Planning Scenarios** (Basis of Planning)

Four program scenarios were identified

### Full Service Inpatient Hospital

The addition of 30 Medical/Surgical beds and associated support needs for a full service Inpatient Hospital was Included in the original SOW in addition to increased Primary, Specialty and Mental Health Ambulatory Care.

### Subacute Inpatient Hospital

In lieu of 30 Medical Surgical acute beds, an optional scenario was introduced at the October 18th meeting to add a 15 bed Subacute Care unit to expanded Ambulatory Care services provided in the current facility.

### Ambulatory Care Center Only

This scenario, included in the original SOW, expands ambulatory care services on site without adding Medical/Surgical Inpatient beds.

Minimum Required Infrastructure Improvements "Bare Bones"

Recognizing that much of the infrastructure of the current facility is failing, this scenario was introduced in the October 18th meeting to identify the cost of replacing the campus infrastructure with new systems.





## Planning Scenarios (Basis of Planning) - Continued

All scenarios except the "Bare Bones" scenario include Inpatient Mental Health Unit of 12 to 15 beds, a 15 – 30 bed RRTP site, Long Term Care (CLC), and growth in Specialty Care.

#### All scenarios:

- Consider on-site development only and include RRTP, Domiciliary, Inpatient Psychiatric, and Community Living Center Beds
- Replace Failing Infrastructure
- Close Space Gaps using VA projected workload and VA planning criteria for square footage; including SEPS

*Note:* Off-site concepts and scenarios are not a part of this project scope.



## **Program Summary**

	Dep	artment Area N	leed	Existi	ng	
	Full M/S	Subacute	ACC	Area	As % of Need	Comments
BEDS						
Acute M/S & ICU (25 Beds)	23,500	0	0	0	0%	
Subacute Beds (15 Beds)	0	12,225	0	0	0%	
IP Mental Health (12 Beds)		9,000		0	0%	
RRTP (30 Beds)						
- Chronic Pain (12 Beds)		5,400		0	0%	
- Substance Abuse (12 Beds)		5,400		0	0%	
- PTSD (6 Beds)		2,700		0	0%	
Domiciliary (20 Beds)		9,000		0	0%	
CLC (46 Beds)		40,626		13,533	33%	
OUTPATIENT & D&T						
ORs/Endoscopy/SPD	34,930	26	,630	11,262	32%	% of Full M/S Need
Radiology		18,100		7,686	42%	
Lab		11,283		5,982	53%	
ED/Urgent Care	9,000	7,	500	4,955	55%	% of Full M/S Need
Primary Care		41,534		17,064	41%	Area Need Includes CBOCs
Specialty Care		94,821		44,213	47%	Area Need Includes CBOCs
Outpatient Mental Health		20,500		13,800	67%	Area Need Includes CBOCs
SUPPORT						
Support Departments	79,336	71,711	65,213	39,131	49%	% of Full M/S Need
Admin & Education	37,460	29,088	26,732	28,750	77%	% of Full M/S Need
Swing Space	8,737	7,862	7,225	0	0%	
Total Department Area	442,327	404,379	382,664	178,690	40%	% of Full M/S Need
Building Gross @ 45%	199,047	181,971	172,199			
Total Building Need	641,375	586,350	554,863			





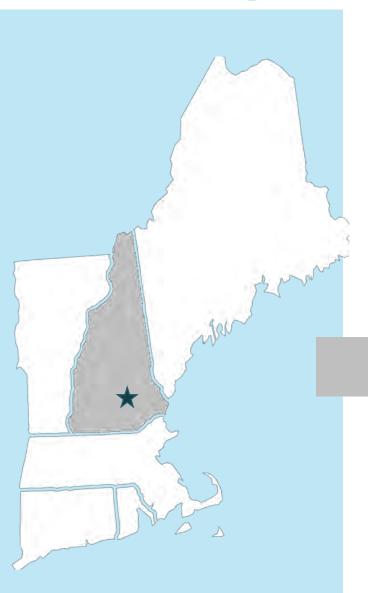
## **Projected Parking Needs**

Manchester VAMC Parking				Site O	ptions		
	Existing	1	2	3	4	5A	5B
<b>Existing Demand</b>	972						
Projected Demand		1,280	1,280	1,273	1,263	1,280	1,273
Current Provision	725	725	725	725	725	725	725
Construction Loss							
Loop Road (West)		(56)	(56)	(56)	(56)	(56)	(56)
Building Footprints		(347)	(378)	(378)	(370)	(378)	(378)
Deficit (Garage Need)	247	958	989	982	964	989	982





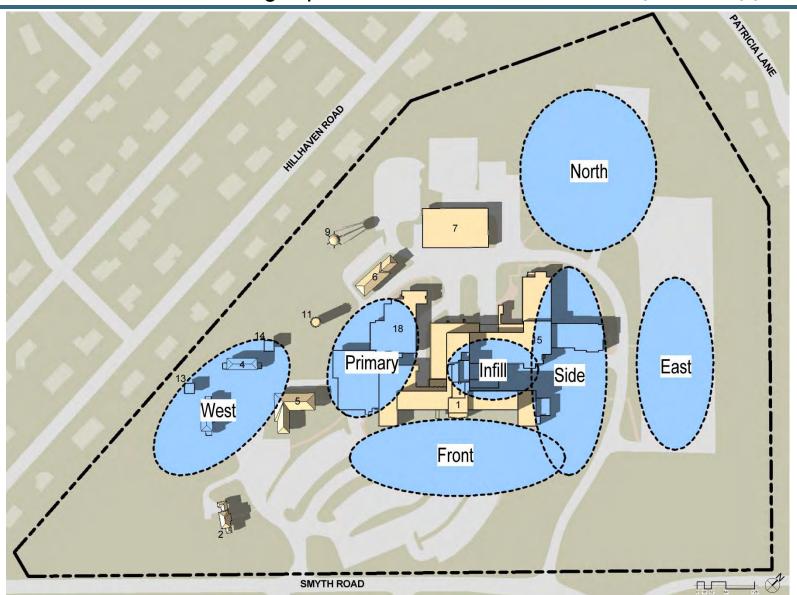
# VISN 1



# **Review of Planning Options**







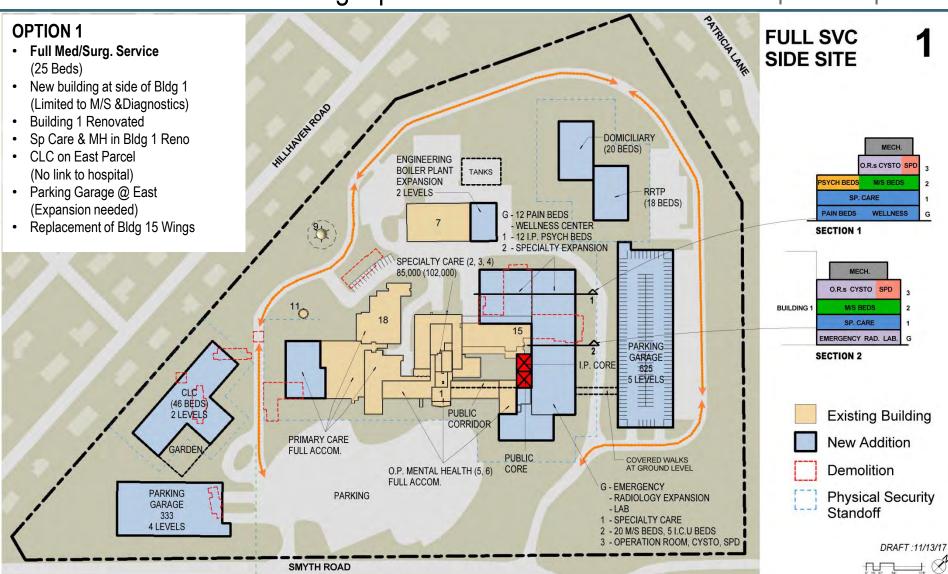




	PROGRAM	EXPANSION	KEEP/DEMO	COMMENTS	
		SITE	BUILDING 1		
IA1		FRONT	KEEP	SPECIALTY CARE SPACE COMPROMISED IN BUILDING 1	*
IA2			DEMO	VERY DIFFICULT - NOT PRACTICAL	
IB1	FULL SERVICE	SIDE	KEEP	NEED TO VACATE BUILDING 15. SPECIALTY CARE SPACE COMPROMISED IN BUILDING 1	*
IB2			DEMO	VERY DIFFICULT - NOT PRACTICAL	
IC1		FRONT & SIDE	DEMO	NEED TO VACATE BUILDING 15 ALL PROGRAMS ACCOMMODATED IN NEW CONSTRUCTION	*
IIA1		FRONT	KEEP	SPECIALTY CARE SPACE COMPROMISED IN BUILDING 1	*
IIA2			DEMO	VERY DIFFICULT TO ACHIEVE - NOT PRACTICAL	
IIB1	SUB ACUTE MED SURG	SIDE	KEEP	NEED TO VACATE BUILDING 15 SPECIALTY CARE SPACE COMPROMISED IN BUILDING 1	
IIB2	IIILD CORC		DEMO	VERY DIFFICULT TO ACHIEVE - NOT PRACTICAL	
IIC1		FRONT & SIDE	DEMO	NEED TO VACATE BUILDING 15 ALL PROGRAMS ACCOMMODATED IN NEW CONSTRUCTION	
IIIA1		FRONT	KEEP	NEW SPECIALTY CARE SPACE ADMIN AND SUPPORT FULLY ACCOMMODATED IN BUILDING 1	*
IIIA2			DEMO	DIFFICULT TO ACHIEVE	
IIIB1	ACC	SIDE	KEEP	NEED TO VACATE BUILDING 15 SIDE NOT BEST PUBLIC ACCESS FOR CLINIC SPACE	
IIIB2		SIDE	DEMO	DIFFICULT TO ACHIEVE NEED TO VACATE BUILDING 15	
IIIC1		FRONT & SIDE	DEMO	NEED TO VACATE BUILDING 15 ALL PROGRAMS ACCOMMODATED IN NEW CONSTRUCTION	*

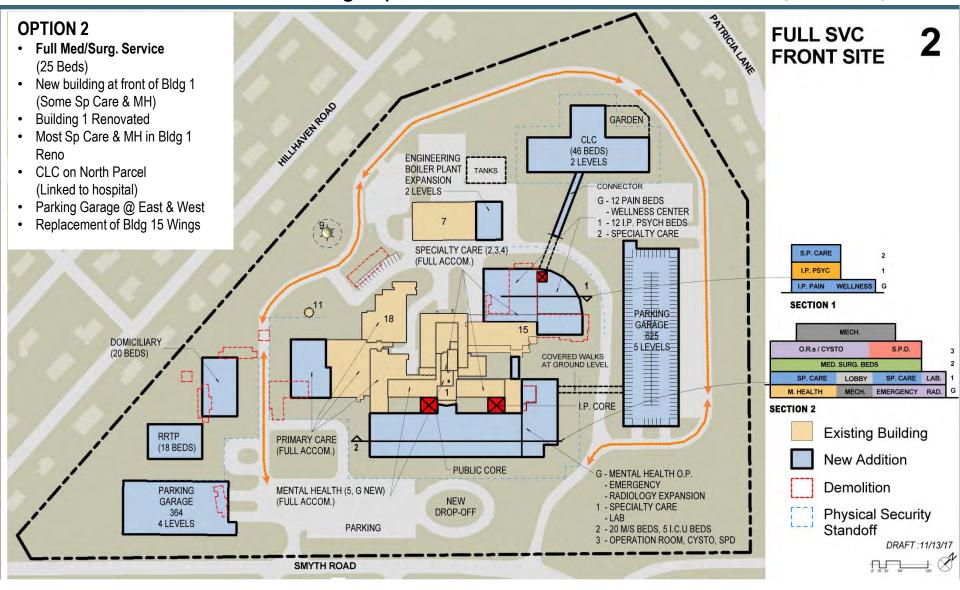






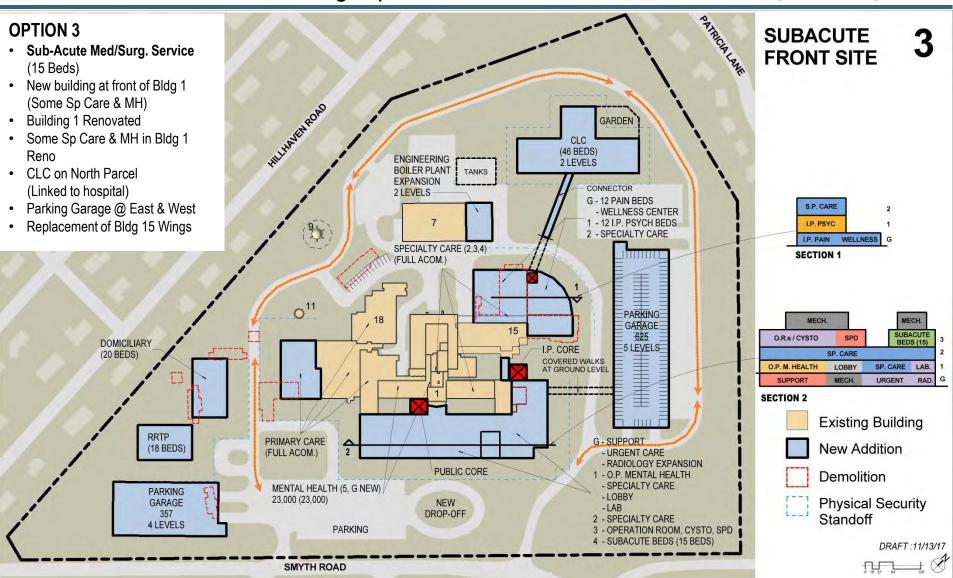






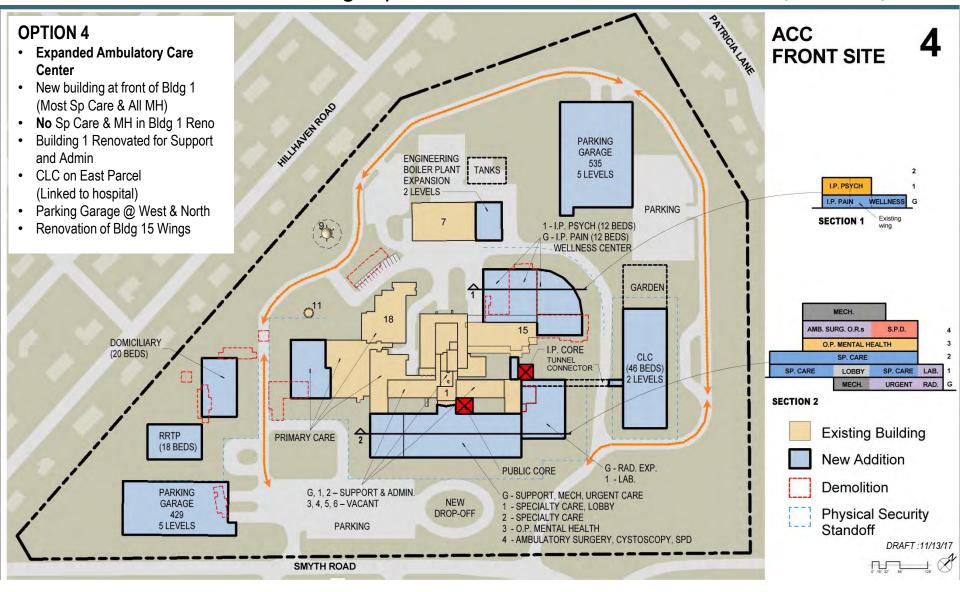






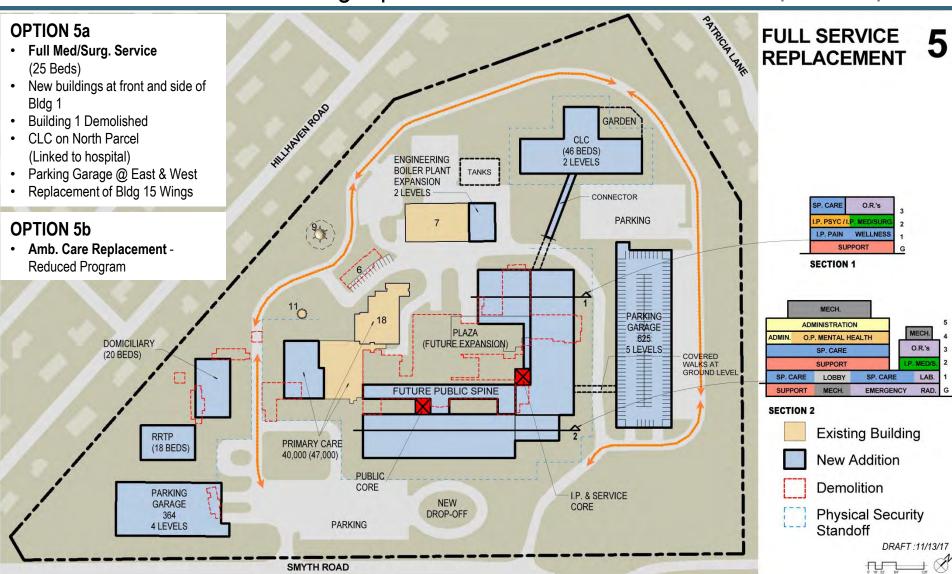






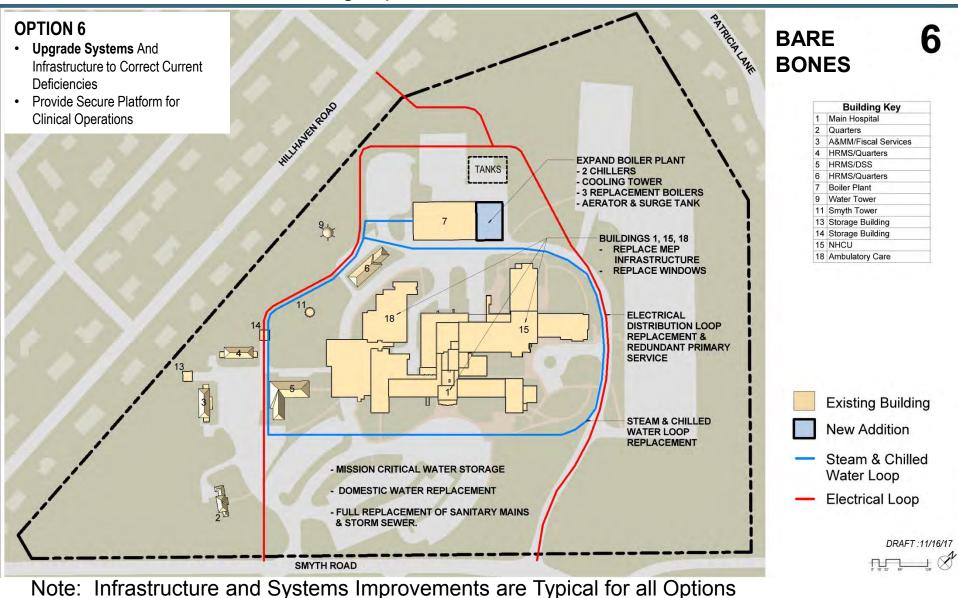
















# Mission Critical/Continuity of Operations

- Project Specific Compliance vs. Global Compliance
- Mission Critical Utility Storage
  - Potable Water
  - Industrial Water
  - Fire Protection Water
  - Wastewater
  - Contaminated Water
  - Fuel

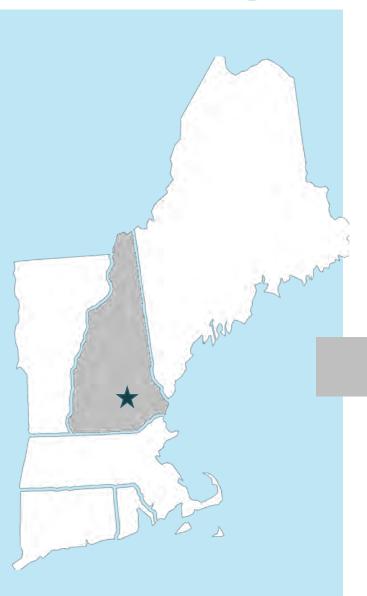
# **Utility Distribution System Replacement**

- Replacement of Storm, Sanitary, & Water Distribution Systems
  - Identified by FCA to have exceeded useful life
  - To meet additional demands placed on systems by new buildings & additions
  - To provide service to new buildings provided on outer areas of Campus





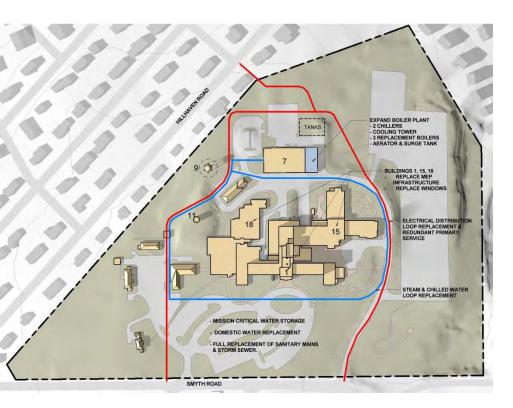
# VISN 1



# **Comparison of Options**







#### **Advantages**

- Least expensive option
- Least site disruption
- Enhanced Infrastructure

### **Disadvantages**

- Growth in Clinical Programs not accommodated
- Lack of swing space for phasing
- Most disruptive to clinical service operations
- Space Gap will be increased by projected clinical program growth
- Clinical space remains substandard in existing aged facility
- No added parking

Costs are projected to the mid-point of construction and include hard and soft project costs.

Projected Cost - 122.9 M

Duration - 3 - 4 Years







- Less site disruption than Option 2-5
- Full Med Surg. Program (New Const.)
- Additional Parking
- Enhanced Infrastructure
- Improved Services

### **Disadvantages**

- Substandard clinic space in Building 1
- Clinical addition remote from Main Entry

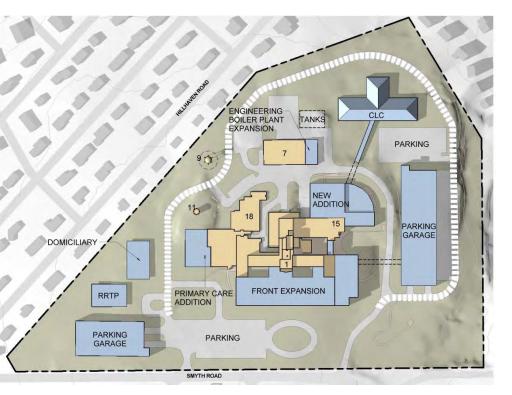
Costs are projected to the mid-point of construction and include hard and soft project costs.

Projected Cost - \$512.3 M

**Duration - 7 Years** 







- New front image for Medical Center
- Full Med Surg. Program (New Const.)
- Additional Parking
- Enhanced Infrastructure
- Improved Services

### **Disadvantages**

- Substandard clinic space in Building 1
- Additional site disruption and longer schedule than Option 1

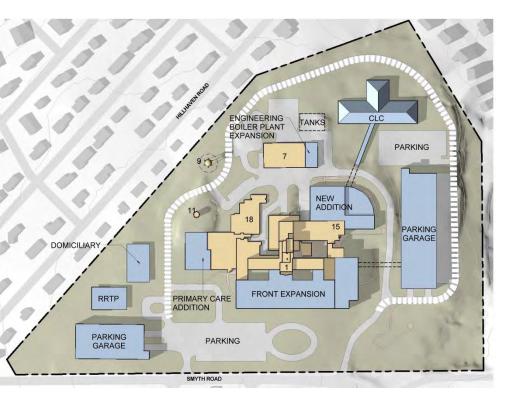
Costs are projected to the mid-point of construction and include hard and soft project costs.

Projected Cost - \$516.2 M

**Duration - 8 Years** 







- New front image for Medical Center
- Additional Parking
- Enhanced Infrastructure
- Improved Services

### **Disadvantages**

- Substandard clinic space in Building 1
- Additional Site disruption and longer schedule

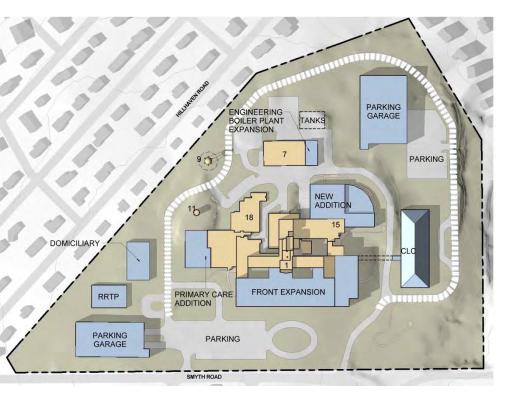
Costs are projected to the mid-point of construction and include hard and soft project costs.

Projected Cost - \$498.0 M

**Duration - 8 Years** 







- All clinics in new building
- New front image for Medical Center
- Additional Parking
- Enhanced Infrastructure
- Improved Services

### **Disadvantages**

- Additional site disruption
- Several Building 1 floors remain vacant
- Parking is more remote

Costs are projected to the mid-point of construction and include hard and soft project costs.

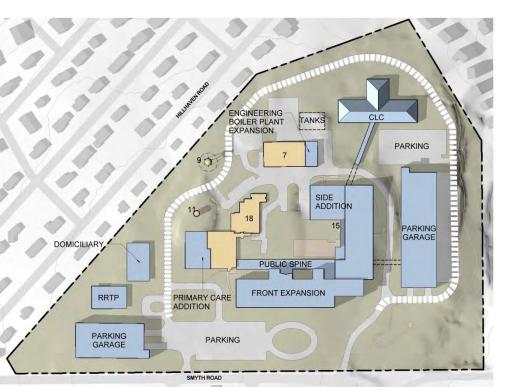
Projected Cost - \$467.1 M

**Duration - 7 Years** 





## Manchester VAMC Planning Options Full Service M/S Replace Building 1 (Option 5)



#### <u>Advantages</u>

- All programs in new building
- Building 1 no longer a liability
- Best option for improved space and flexibility
- Full Med Surg. Program (New Const.) 5a
- Additional Parking
- Enhanced Infrastructure
- Improved Services

#### **Disadvantages**

- Most expensive option
- Additional Site disruption
- Longer Schedule than Option 1

Costs are projected to the mid-point of construction and include hard and soft project costs.

5a Projected Cost -

\$ 621.7 M

Duration - 8 Years

5b Projected Cost -

\$ 559.3 M

Duration - 8 Years



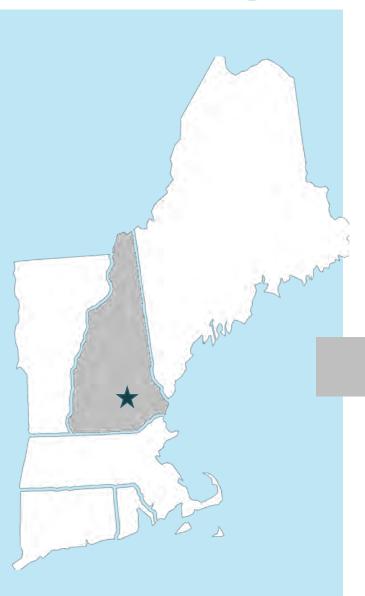


## **Clinical Service Option Values**

Service	Department Area (SF)	Support Area (SF)	Dept. Area Total (SF)	Building Area (SF)	Project Cost Saving \$M
Medical/Surgical Beds (25)	23,500	13,420	36,920	54,826	34.3
Subacute Inpatient Beds (15)	12,225	7,226	19,451	28,885	17.3
Pain RRTP Beds (12)	5,400	3,853	9,253	13,741	7.3
Substance/PTSD RRTP Beds (18)	8,100	5,780	13,880	20,611	11.0
Domiciliary Beds (20)	9,000	6,442	15,422	22,901	11.3
CLC (46 Beds)	40,626	23,524	64,168	95,282	50.1
Ambulatory Surgery	15,100	6,647	21,747	32,292	19.2



# VISN 1



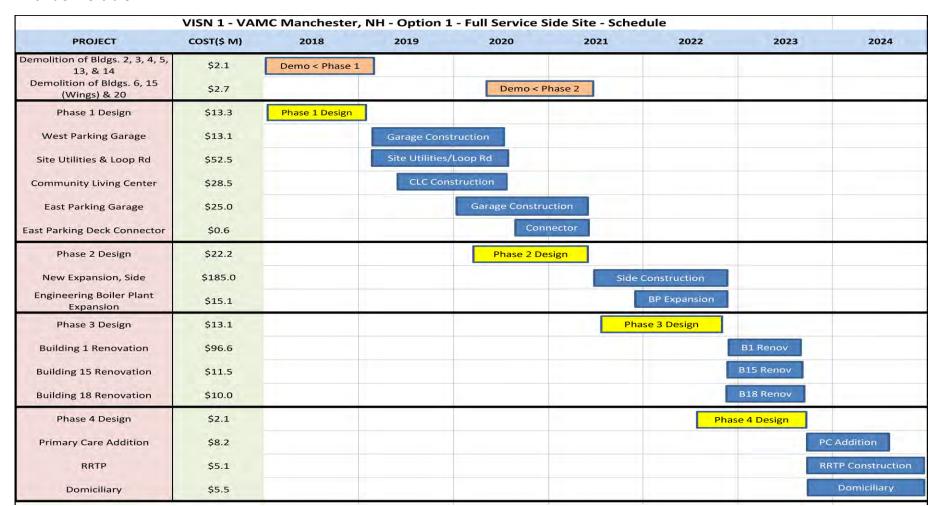
Cost / Scheduling





# Option 1 Cost and Schedule Summary

\$ 512.3 M

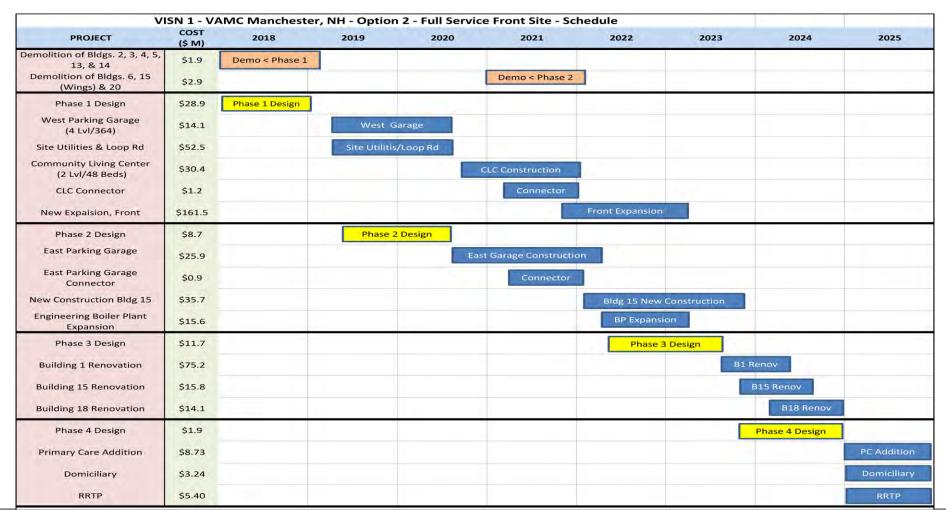






# Option 2 Cost and Schedule Summary

\$ 516.2 M

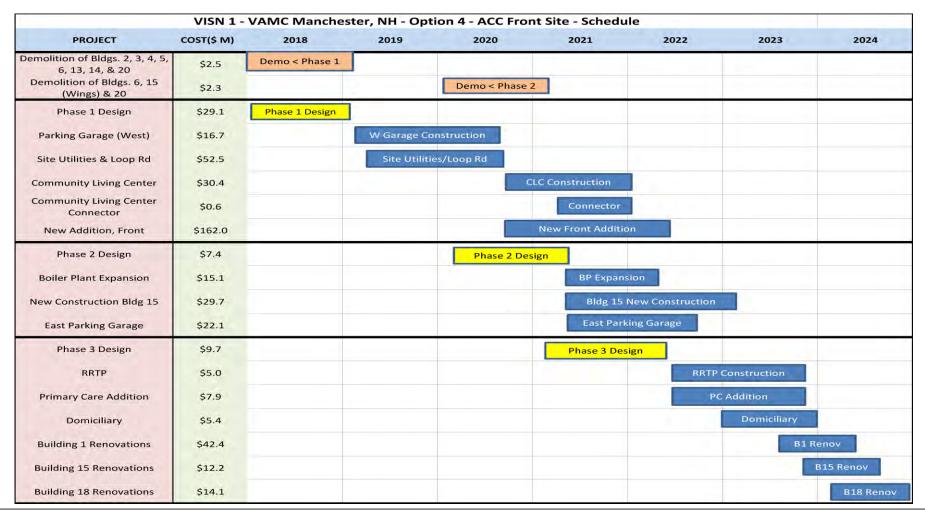






# Option 3 Cost and Schedule Summary

\$ 498.0 M

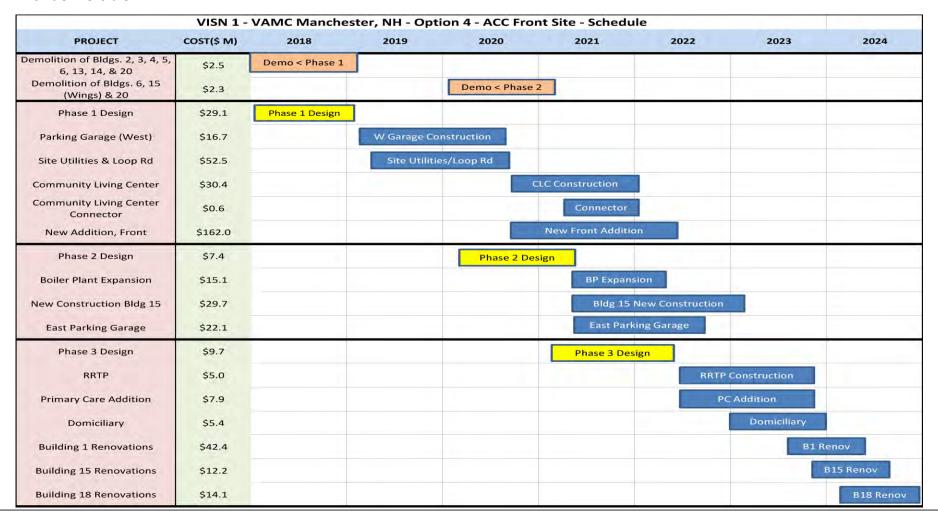






# Option 4 Cost and Schedule Summary

\$ 467.1 M



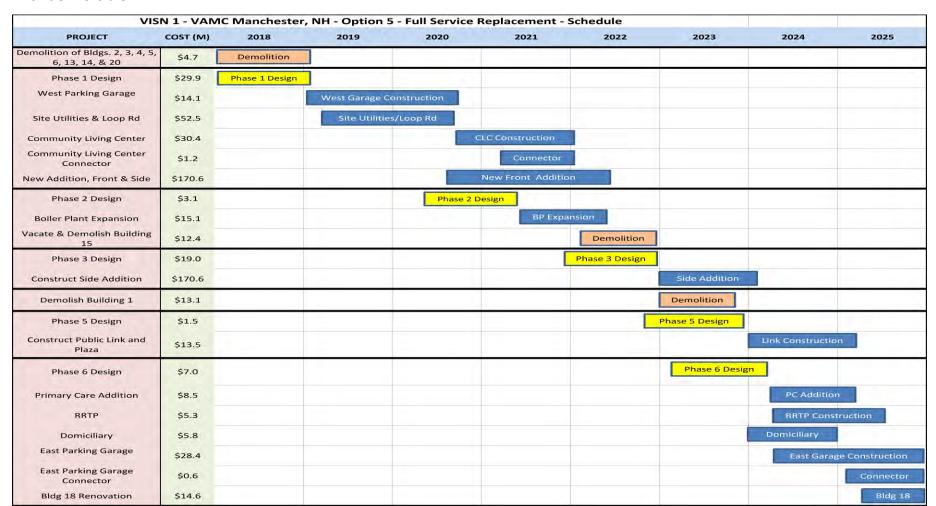




# Option 5 Cost and Schedule Summary

\$ 621.7 M

All Costs are preliminary and conservative. All Options will likely be adjusted and may increase upon development of final deliverable.







# **Option 1 Cost Summary**

Manchester VAMC
Project Costs by Building
Option 1 - Full Service - Side

\$ 512.3 M

Bldg No.	Function Title		Struct		Arch		Elec		Mech		Plumb		Stem Gen		Transp	SF	Cost (const. costs)		SF Cost (in oject Costs)	GSF	*То	tal (in project costs)	Years to Midpoint		Total (incl. escalation)
1.1	New (CLC)	\$	5,945,885	\$	11,891,770	\$	3,864,825	\$	4,756,708	\$	2,378,354	\$		S	891,883	\$	294.50	\$	540.53	55,000	\$	29,729,424	2.0	\$	31,693,239
2	Demo	\$		\$		\$	*	\$		\$		\$		\$	(A.)	\$	24.70	\$	45.34	100,000	\$	4,533,519	2.0	\$	4,832,987
2.1	Bldg 20 Demo	\$		\$		\$		\$		\$		\$		\$		5	24.70	\$	45.34	10,000	\$	453,352			
2.2	Bldg 15 Demo Wings	\$	-	\$	9 1	\$	2+0	\$	761	\$		\$	-	\$	*.0	\$	24.70	\$	45.34	40,000	\$	1,813,408			
2.3	Bldg 6	\$	- «	\$		\$		\$	-81	\$		\$	- 19	\$		5	24.70	\$	45.34	10,000	\$	453,352		_	
2.4	5 Bldgs - Plan SW	\$	1500000000	\$	-	\$		\$	-	\$	1	\$		\$	£ 1000.000	\$	24.70	\$	45.34	40,000	\$	1,813,408	2.70		
2.5	New Construction at Side	\$	42,693,351	\$	57,331,760	\$	25,849,272	\$	31,314,286	\$	16,637,114	\$	- 19.	\$	7,059,947	\$	394.21	\$	723.54	250,000	\$	180,885,730	4.0	\$	205,572,278
2.5.1	Basement		200000								- P (P - N)			11.3	7447444				181 4101	2444	-	3 3 3 3 3 3 3		_	
2.5,2	Mechanical	\$	642,380	\$	856,506	\$	347,956	\$	481,785	\$	240,892	\$		\$	107,063	\$	291.66	\$	535.32	5,000	\$	2,676,582		+	
2.5.3	BGSF: Emergency	\$	1,644,307	\$	2,023,763	\$	758,911	\$	1,075,124	\$	569,183	\$	1.0	\$	252,970	\$	382.85	\$	702.70	9,000	\$	6,324,259		+-	
2.5.4	Radiology Expansion	\$	2,089,604 1,902,952	\$	Secripture.	\$	1,343,317	\$	1,194,059	\$	597,030 691,982	\$	-	\$	149,257	\$	406.60	\$	746.29 765.47	10,000	\$	7,462,870		+	
2.5.5	Lab	S	2,394,716	\$	3,113,921	\$		S	1,383,965	\$	957,886	*		S	202.454	\$	417.05 312.51	\$	573.58	11,300	\$	8,649,780		+	
2.5.6	Wellness Cntr (Rehab)	8	635,565	9	2,777,870 940,635	\$	1,532,618 355,916	S	1,532,618 381,339	\$	228.803	\$	-	S	383,154	2	256.50	9	470.79	16,700 5,400	\$	9,578,862 2,542,258		+	
2.5.7	Chronic Pain Beds (12) Level 1	1.0	035,565	3	940,030	3	333,976	٥	307,339	ಾ	220.003	-3		3		0	200.00	à	470,79	5,400	- 3	2,042,200	-	+	
2.5.8	Specialty Care	5	7,598,150	•	11,578,134	e	5,427,250	S	6,150,884	6	3,256,350	0		\$	2,170,900		376.20	e	690.49	52,400	\$	36,181,668		+	
2.5.10	Level 2	-0	7,590,750	φ	11,570,134	φ	3,421,230	· ·	0,130,664	φ	3,200,300	à	-	φ	2,170,900	· P	370.20	٥	030,43	32,400	10	30,101,000	-	+	
2.5.10	M/S (24) & ICU (6) Beds	\$	4.753.221	S	7,034,766	S	2,661,804	s	2,851,932	s	1,711,159	9	- 4	S		0	440.80	S	809.06	23,500	\$	19,012,882		+	
2.5.12	I.P. Psychiatric Beds (12)	\$	1.345.966	S	1,992,030	S	753.741	S	807,580	S	484.548	S	1A-1	\$	-	S	325.92	\$	598.21	9.000	\$	5.383.864	-	+	
2.5.13	O.R.s & Cystoscopy	5	7.161.008	\$	9.029.096	\$	4.358.874	\$	6,226,963	S	2.802.133	-		\$	1,556,741	S	589.00	S	1.081.07	28.800	5	31.134.815		+	
2.5.14	SPD (Central Sterile)	S	1.509.771	\$	1,207,817	S	785,081	\$	966,253	\$	966,253	S		S	603,908	S	536.75	S	985.17	6,130	S	6,039,084		+	
2.5.15	Bldg Gross (w/o PH)	5	11.658.093	S	15,544,124	S	6,314,800	8	8,743,569	S	4,371,785	_		5	1,943,015	S	428.45	S	786.39	61,770	\$	48,575,386		+	
2.5.16	Penthouse	Ť					342.7.17.2.2		10,7 33,432		.000.00.00	Ť		1	.95.35.3	_				- 11.05		224512455		1	
2.5.17	Mechanical	\$	1,413,235	\$	1,884,314	\$	765,503	8	1.059.927	\$	529,963	\$	- 8	\$	235,539	\$	291.66	\$	535.32	11,000	\$	5,888,481		1	
3.1	Bldg 1 - Full Renovation	\$	19,630,376	\$	29,411,502	\$	13,440,013	\$	15,129,050	\$	8,513,308	\$	- 6	\$	5,347,924	\$	264.70	\$	647.77	141,210	\$	91,472,173	5.0	\$	107,334,490
3.1.1	Bldg 1 - O.P. MH (5 & 6)	\$	3,369,754	\$	4,633,411	\$	1,825,283	\$	1,965,690	\$	1,544,470	\$		\$	702,032	\$	263.15	\$	482.99	29,070	\$	14,040,640		1	
3.1.2	Specialty Care (2,3,4)	\$	16,260,622	\$	24,778,090	\$	11,614,730	\$	13,163,361	\$	6,968,838	\$	-	\$	4,645,892	\$	376.20	\$	690.49	112,140	\$	77,431,532			
3.2	Bldg 15 - Renovations	\$	2,285,970	\$	3,483,383	\$	1,632,836	\$	1,850,547	\$	979,702	\$	*	5	653,134	\$	282.15	5	517.87	21,020	\$	10,885,573	5.0	\$	12,773,255
3.3	Bldg 18 - Renovations	\$	2,448,100	\$	3,013,047	\$	1,129,892	\$	1,506,523	\$	941,577	S	- 4	S	376,631	\$	256.50	\$	470.79	20,000	\$	9,415,771	5.0	\$	11,048,573
4.1	Primary Care Addition	\$	1,958,480	\$	2,410,437	\$	903,914	\$	1,205,219	\$	753,262	\$	14	\$	301,305	\$	342.00	\$	627.72	12,000	\$	7,532,617	6.0	\$	9,126,121
4.2	Boiler Plant Expansion	\$	1,032,105	\$	1,326,992	\$	1,474,436	\$	1,326,992	\$	1,179,549	\$	8,404,284	\$		\$	1,004.15	\$	1,843.04	8,000	\$	14,744,358	4.0	\$	16,756,608
4.3	East Parking Deck (Garage)	\$	15,930,405	\$	2,022,909	\$	3,792,954	\$	1,770,045	\$	1,011,454	\$		\$	758,591	\$	22,042.85	\$	40,458.17	625	\$	25,286,358	3.0	\$	27,832,772
4.3	East Parking Deck Connector	\$	378,920	\$	48,117	s	90,219	\$	42,102	\$	24,058	\$		s	18,044	\$	327.69	\$	601.46	1,000	\$	601,461	3.0	\$	662,030
4.3	West Parking Deck (Garage)	\$	8,589,675	\$	190 200 100	\$	2,045,161	\$	954,408	\$	545,376	\$	- 2	\$	409,032	\$	22,042.85	\$	40,458.17	337	\$	13,634,404	2.0	\$	14,535,042
4.5	New RRTP (18 Beds)	\$	1,176,971	\$	1,741,918	\$	659,104	\$	706,183	\$	423,710	\$		\$		\$	256.50	\$	470.79	10,000	\$	4,707,885	6.0	\$	5,703,826
4.5	Domiciliary	\$	1,271,129	\$	1,881,271	\$	711,832	\$	762,677	\$	457,606	\$	- 3	\$	- 8	\$	256.50	\$	470.79	10,800	\$	5,084,516	6.0	\$	6,160,132
Site	Site		Access.		Elec		Energy	-	Sanitary		Stormwater		Water							GSF					
2	Site Costs	5	15,651,086.66	\$ 1	10,113,343.10	\$ 1	17,145,684.94	\$	4,351,696.69	\$	835,525.76	\$	6,266,443.23								\$	54,363,780		\$	58,292,130
														-							\$			1	
																				TOTAL	1 5	452,877,569		\$	512,323,479

\*Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs- 10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve See adjustment factor worksheet for reference to specific markups





# **Option 2 Cost Summary**

Manchester VAMC
Project Costs by Building
Option 2 - Full Service - Front

\$ 516.2 M

Bldg No.	Function Title		Struct		Arch		Elec		Mech		Plumb	S	Stem Gen		Transp	SF	Cost (const. costs)	F Cost (in ject Costs)	FCA GSF	pı	*Total (in roject costs)	Years to Midpoint		otal (incl. scalation)
1.1	New (CLC)	\$	5,945,885	\$	11,891,770	\$	3,864,825	s	4,756,708	\$	2,378,354	\$	-	\$	891,883	\$	294.50	\$ 540.53	55,000	\$	29,729,424	4.0	\$	33,786,775
1,2	CLC Tunnel Connector	\$	230,059	\$	540,638	\$	161,041	\$	149,538	\$	69,018	\$	2	\$	- 2	\$	313.36	\$ 575.15	2,000	\$	1,150,294	4.0	\$	1,307,282
1.3	New Construction at Front	\$	34,750,529	\$	46,052,091	\$	20,634,001	\$	26,245,561	\$	13,827,179	\$	-	\$	5,527,997	\$	416.52	\$ 764.50	200,000	\$	152,899,074	5.0	\$	179,413,515
1.3,1	BGSF: O.P. Mental Health	\$	2,121,310	\$	2,916,802	\$	1,149,043	\$	1,237,431	\$	972,267	\$	911	\$	441,940	\$	263.15	\$ 482.99	18,300	\$	8,838,793			
1.3.2	Mechanical	\$	374,722	\$	160,595	\$	267,658	\$	1,418,589	\$	481,785	\$		\$	-	\$	291.66	\$ 535.32	5,000	\$	2,676,582			
1.3.3	Emergency	\$	1,644,307	\$	2,023,763	\$	758,911	\$	1,075,124	\$	569,183	\$	*	\$	252,970	\$	382.85	\$ 702.70	9,000	\$	6,324,259			
1.3.4	Radiology Expansion	\$	2,089,604	\$	2,089,604	\$	1,343,317	\$	1,194,059	\$	597,030	\$	- 91	\$	149,257	\$	406.60	\$ 746.29	10,000	\$	7,462,870			
1.3.5	Specialty Care	\$	3,770,075	\$	5,744,876	\$	2,692,910	\$	3,051,965	\$	1,615,746	\$		\$	1,077,164	\$	376.20	\$ 690,49	26,000	\$	17,952,736	10000		
1.3.6	Lobby	\$	747,464	\$	1,162,722	\$	359,890	\$	332,206	\$	166,103	\$	- R I	\$		\$	301.66	\$ 553.68	5,000	\$	2,768,385	11		
1.3.7	Lab	\$	1,902,952	\$	3,113,921	\$	1,556,960	\$	1,383,965	\$	691,982	\$		\$		\$	417.05	\$ 765.47	11,300	\$	8,649,780	77		
1.3.8	M/S (24) & ICU (6) Beds	\$	4,753,221	\$	7.034,766	\$	2,661,804	\$	2,851,932	\$	1,711,159	\$		\$	- 2	\$	440.80	\$ 809.06	23,500	\$	19,012,882			
1.3.9	O.R.s Cysto	\$	7,161,008	\$	9.029.096	\$	4,358,874	\$	6,226,963	\$	2,802,133	\$	911	\$	1,556,741	\$	589.00	\$ 1,081.07	28,800	\$	31,134,815			
1.3.10	SPD	\$	1,509,771	\$	1,207,817	\$	785,081	\$	966,253	S	966,253	\$		\$	603,908	8	536.75	\$ 985.17	6,130	\$	6,039,084			
1.3.11	Building Gross	\$	8,676,097	\$	11,568,129	\$	4,699,553	\$	6,507,073	\$	3,253,536	\$	- 81	\$	1,446,016	S	428.45	\$ 786.39	45.970	\$	36,150,405			
1.3.12	Penthouse																							
1.3.13	Mechanical	\$	1,413,235	\$	1.884.314	\$	765,503	S	1.059.927	\$	529.963	\$	80 1	\$	235,539	5	291.66	\$ 535.32	11.000	\$	5.888.481	-		
2.1	Bldg Demo	\$	16	\$		\$		5		\$	2	\$	9	\$	400	\$	24.70	\$ 45.34	100,000	\$	4,533,519	2.0	5	4,832,987
2.2	Building 15 Wings Replacement	\$	8,036,666	\$	10,856,178	\$	4,900,888	\$	5,610,626	\$	3,135,952	\$	٠	\$	1,239,285	\$	340.82	\$ 625.55	54,000	\$	33,779,596	5.0	\$	39,637,362
2.2.1	BGSF: Chronic Pain Bed (12)	\$	346,275	\$	512,487	\$	193,914	\$	207,765	\$	124,659	\$	- 4	\$	900	\$	256.50	\$ 256.50	5,400	\$	1,385,100			
2.2.2	Wellness Cntr (Rehab) - Lvl 1	\$	2,394,716	\$	2,777,870	\$	1,532,618	\$	1,532,618	\$	957,886	\$		\$	383,154	\$	312.51	\$ 573.58	16,700	\$	9,578,862			
2.2.3	I.P. Beds (15) - Lvl 2	\$	1,324,093	\$	1,959,657	\$	741,492	\$	794,456	\$	476,673	\$	18.0	\$	4.	\$	256,50	\$ 470.79	11,250	\$	5,296,371			
2.2.4	Specialty Care	\$	1,631,282	\$	2,485,763	8	1,165,202	\$	1,320,562	\$	699,121	\$	2.7	\$	466,081	\$	376.20	\$ 690.49	11,250	\$	7,768,011			
2.2.5	Building Gross (w/o PH)	\$	2,340,300	\$	3,120,400	\$	1,267,663	\$	1,755,225	\$	877,613	\$	-	\$	390,050	\$	428.45	\$ 786.39	12,400	\$	9,751,251			
3.1	Bldg 1 - Full Renovation:	\$	14,723,598	\$	22,138,399	\$	10,171,687	\$	11,466,813	\$	6,369,625	\$		\$	4,052,012	\$	265.92	\$ 488.08	141,210	\$	68,922,134	6.0	5	83,502,423
3.1	Bldg 1 - Outpatient MH (5 & 6)	\$	1,999,596	\$	2,749,444	\$	1,083,114	\$	1,166,431	\$	916,481	\$		\$	416,582	S	197.36	\$ 362.25	23,000	\$	8,331,649			
3.2	Bldg 1 - Specialty Care (2,3,4)	\$	12,724,002	\$	19,388,955	\$	9,088,573	\$	10,300,382	\$	5,453,144	\$		\$	3,635,429	\$	282.15	\$ 517.87	117,000	\$	60,590,485			
3.3	Bldg 15 - Renovation	\$	3,047,960	\$	4,644,511	\$	2,177,115	\$	2,467,396	\$	1,306,269	\$		S	870,846	\$	376,20	\$ 690,49	21,020	\$	14,514,097	6.0	S	17,584,514
3.4	Bldg 18 - Renovation	\$	3,264,134	\$	4,017,396	\$	1,506,523	\$	2,008,698	\$	1,255,436	\$	- 1	\$	502,174	\$	342.00	\$ 627.72	20,000	\$	12,554,361	7.0	\$	15,704,533
4.1	Primary Care Addition	\$	1,958,480	s	2,410,437	\$	903,914	\$	1,205,219	5	753,262	\$	'A."	\$	301,305	\$	342.00	\$ 627.72	12,000	\$	7,532,617	8.0	\$	9,728,958
4.2	Boiler Plant Expansion	\$	1,032,105	\$	1,326,992	\$	1,474,436	\$	1,326,992	\$	1,179,549	\$	8,404,284	\$	-	\$	1,004.15	\$ 1,843.04	8,000	\$	14,744,358	5.0	5	17,301,197
4.3	East Parking Deck (Garage)	\$	15,930,405	\$	2,022,909	\$	3,792,954	\$	1,770,045	\$	1,011,454	\$		S	758,591	\$	22,042,85	\$ 40,458.17	625	\$	25,286,358	4.0	5	28,737,337
4.3	East Parking Deck Connector	\$	568,381	\$	72,175	\$	135,329	\$	63,153	\$	36,088	\$	- 6	\$	27,066	\$	327.69	\$ 601.46	1,500	\$	902,192	4.0	\$	1,025,319
4.3	West Parking Deck (Garage)	\$	9,277,868	\$	1,178,142	\$	2,209,016	\$	1,030,874	5	589,071	\$		S	441,803	5	22,042.85	\$ 40,458.17	364	\$	14,726,775	2.0	\$	15,699,570
4.4	RRTP (18 Beds)	\$	1,176,971	\$	1,741,918	\$	659,104	\$	706,183	\$	423,710	\$		\$		\$	256.50	\$ 470.79	10,000	\$	4,707,885	8.0	\$	6,080,599
4.5	Domiciliary	\$	692,550	\$	1,024,974	\$	387,828	\$	415,530	\$	249,318	\$	140	\$		S	256.50	\$ 256.50	10,800	\$	2,770,200	8.0	\$	3,577,928
Site	Site		Access.		Elec		Energy		Sanitary		Stormwater		Water						GSF	T			T	
- 10	Site Costs	¢ 4	and the same of					•	4.351.696.69	_		•	6.266.443.23		-			- 11	-	\$	54,363,780		10	58.292.130
	Site Costs	9 1	0,001,000.00	9	10, 113,343.10	à	17,140,004.94	4	4,331,030.09	3	033,323.70	5	0,200,443.23						The same of the sa	P	34,303,700		1.3	516,212,430

\*Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs- 10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve See adjustment factor worksheet for reference to specific markups

Excludes relocation costs





## **Option 3 Cost Summary**

Manchester VAMC
Project Costs by Building
Option 3 - Subacute - Front

\$498.0 M

Bldg No.	Function Title	Struct	Arch	Elec	Mech	Plumb	Stem Gen		Transp	SFC	Cost (const. costs)	*SF Cost (in Project Costs)	FCA GSF	рі	*Total (in roject costs)	Years to Midpoint		Total (incl. escalation)
1.1	Construct: Community Living Center (CLC)	\$5,945,885	\$11,891,770	\$3,864,825	\$4,756,708	\$2,378,354	\$0		\$891,883	\$	294.50	\$ 540.53	55,000	s	29,729,424	4.0	s	33,786,775
1.2	CLC Tunnel Connector	\$345,088	\$460,118	\$138,035	\$149,538	\$57,515	\$0		\$0	S	313.36	\$ 575.15	2,000	S	1,150,294	4.0	\$	1,307,282
1.3.1	New Construction at Front	\$ 33,165,092	\$ 44,412,166	\$ 20,122,760	\$ 25,459,463	\$ 13,515,389	\$ -	_	6,026,355	\$	433.64	\$ 712.54	188,000	\$	133,957,520	5.0	\$	157,187,280.53
1.3.1	BGSF: Support	\$ 1,899,336	\$ 2,807,714	\$ 1,073,538	\$ 1,321,277	\$ 825,798	\$ -	\$		\$	310.29	\$ 569.52	14,500	\$	8,257,983			
1.3.2	Mechanical	\$ 374,722	\$ 160,595	\$ 267,658	\$ 1,418,589	\$ 481,785	\$ -	- "		\$	291.66	\$ 535.32	5,000	\$	2,676,582			
1.3.3	Urgent Care	\$ 1,224,050	\$ 1,506,523	\$ 564,946	\$ 753,262	\$ 470,789		<u> </u>	100(0.00)	\$	342.00	\$ 627.72	7,500	\$	4,707,885		-	
1.3.4	Radiology Expansion	\$ 2,089,604	\$ 2.089,604	\$ 1,343,317	\$ 1,194,059	\$ 597,030	\$ -	_	777777	\$	406.60	\$ 746.29	10,000	\$	7,462,870		1	
1.3.5	Outpatient MH	\$ 1,506,942	\$ 2,072,045		\$ 879,049				0.0000000000000000000000000000000000000	\$	263.15	2.1	13.000	\$	6,278,924			
1.3.6	Specialty Care	\$ 1,116,522	\$ 1,701,367	\$ 797,516	\$ 903,851	\$ 478,509	7.5			\$	376.20	\$ 690.49	7.700	\$	5,316,772			
1.3.7	Lobby	\$ 747,464	\$ 1,162,722	\$ 359,890	\$ 332,206	\$ 166,103		-1.7		\$	301.66	\$ 553.68	5,000	\$	2,768,385			
1.3.8	Lab	\$ 1,902,952	\$ 3,113,921	\$ 1,556,960	\$ 1,383,965	\$ 691,982	\$ -	- "		\$	417.05	\$ 765.47	11,300	\$	8,649,780			
1.3.9	Specialty Care	\$ 5,365,106	\$ 8,175,400	\$ 3,832,219	\$ 4,343,181	\$ 2,299,331	\$ -	- '	2/333/355	\$	376.20	\$ 690.49	37,000	\$	25,548,125			
1.3.10	Subacute Beds (15)	\$ 1,447,675	\$ 2,142,559	\$ 810,698	\$ 868,605	\$ 521,163	\$ -	2		\$	256.50	\$ 470.79	12,300	\$	5,790,699			
1.3.11	O.R. & Cystoscopy	\$ 5,097,245	\$ 6,426,961	\$ 3,102,671	\$ 4,432,387	\$ 1,994,574	\$ -	\$	1,108,097	\$	589.00	\$ 1,081.07	20,500	\$	22,161,935			
1.3.12	SPD (Central Sterile)	\$ 1,509,771	\$ 1,207,817	\$ 785,081	\$ 966,253	\$ 966,253	\$ -	5	603,908	\$	536.75	\$ 985.17	6,130	\$	6,039,084			
1.3.13	Building Gross	\$ 8,883,704	\$ 11,844,939	\$ 4,812,007	\$ 6,662,778	\$ 3,331,389	\$ -	\$	1,480,617	\$	428.45	\$ 786.39	47,070	\$	37,015,435			
1.3.14	Penthouse												11 7 1 7 1					
1.3.15	Mechanical	\$ 1,670,187	\$ 2,226,916	\$ 904,685	\$ 1,252,641	\$ 626,320	\$ -	\$	278,365	\$	291.66	\$ 535.32	13,000	\$	6,959,114			
2,1	All Demo	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$		\$	24.70	\$ 45.34	100,000	S	4,533,519	3.0	\$	4,990,059
	New Construction:																	
2.3	Bldg 15 - Wings Replacement (BGSF)	\$ 8,017,981	\$ 10,772,710	\$ 4,834,898	\$ 5,573,522	\$ 3,111,100	\$ -	5	1,193,253	\$	376.20	\$ 690.49	54,000	\$	37,286,452	5.0	\$	43,752,348
2.3.1	BGSF: Chronic Pain Bed (12)	\$ 635,565	\$ 940,635	\$ 355,916	\$ 381,339	\$ 228,803	\$ -	2	-	\$	256.50	\$ 470.79	5,400	\$	2,542,258			
2.3.2	Wellness Cntr (Rehab) - Lvl 1	\$ 2,394,716	\$ 2,777,870	\$ 1,532,618	\$ 1,532,618	\$ 957,886	\$ -	\$	383,154	\$	312.51	\$ 573.58	16,700	\$	9,578,862			
2.3.3	I.P. Beds (15) - Lvl 2	\$ 1,059,274	\$ 1,567,726	\$ 593,194	\$ 635,565	\$ 381,339	\$ -	2	-	\$	256.50	\$ 470.79	9,000	\$	4,237,097			
2.3.4	Specialty Care	\$ 1,305,026	\$ 1,988,611	\$ 932,161	\$ 1,056,449	\$ 559,297	\$ -	\$	372,865	\$	376.20	\$ 690.49	9,000	\$	6,214,409			
2.3.5	Building Gross (w/o PH)	\$ 2,623,401	\$ 3,497,868	\$ 1,421,009	\$ 1,967,551	\$ 983,775	\$ -	. \$	437,234	\$	428.45	\$ 786.39	13,900	\$	10,930,838			
3.1	Bldg 1 - Full Renovation	\$ 14,723,598	\$ 22,138,399	\$ 10,171,687	\$ 11,466,813	\$ 6,369,625	\$ -	5	4,052,012	\$	265.92	\$ 488.08	141,210	\$	68,922,134	6.0	\$	83,502,423
3.2	Bldg 15 - Renovations	\$ 3,047,960	\$ 4,644,511	\$ 2,177,115	\$ 2,467,396	\$ 1,306,269	\$ -	5	870,846	\$	376.20	\$ 690.49	21,020	\$	14,514,097	6.0	\$	17,584,514
3.3	Bldg 18 -Renovations	\$ 3,264,134	\$ 4,017,396	\$ 1,506,523	\$ 2,008,698	\$ 1,255,436	\$ -	9	502,174	\$	342.00	\$ 627.72	20,000	\$	12,554,361	7.0	\$	15,704,533
4.1	Primary Care Addition	\$ 1,958,480	\$ 2,410,437	\$ 903,914	\$ 1,205,219	\$ 753,262	\$ -		301,305	\$	342.00	\$ 627.72	12,000	\$	7,532,617	8.0	\$	9,728,958
4.2	Boiler Plant Expansion	\$ 1,032,105	\$ 1,326,992	\$ 1,474,436	\$ 1,326,992	\$ 1,179,549	\$ 8,404,2	84 \$		\$	1,004.15	\$ 1,843.04	8,000	\$	14,744,358	5.0	\$	17,301,197
4.3	East Parking Deck (Garage)	\$ 15,930,405	\$ 2,022,909	\$ 3,792,954	\$ 1,770,045	\$ 1,011,454	\$ -	\$	758,591	\$	22,042.85	\$ 40,458.17	625	\$	25,286,358	4.0	\$	28,737,337
4.3	East Parking Deck Connector	\$ 568,381	\$ 72,175	\$ 135,329	\$ 63,153	\$ 36,088	\$ -	5	27,066	\$	327.69	\$ 601.46	1,500	\$	902,192	4.0	\$	1,025,319
4.3	West Parking Deck (Garage)	\$ 9,099,447	\$ 1,155,485	\$ 2,166,535	\$ 1,011,050	\$ 577,743	\$ -	9	433,307	\$	22,042.85	\$ 40,458.17	357	\$	14,443,567	2.0	\$	15,397,655
4.4	RRTP (18 Beds)	\$ 1,176,971	\$ 1,741,918	\$ 659,104	\$ 706,183	\$ 423,710	\$ -	\$	-	\$	256.50	\$ 470.79	10,000	S	4,707,885	8.0	\$	6,080,599
4.5	Domiciliary	\$ 692,550	\$ 1,024,974	\$ 387,828	\$ 415,530	\$ 249,318	\$ -	\$	¥.	\$	256.50	\$ 256.50	10,800	\$	2,770,200	8.0	\$	3,577,928
Site	Site	Access.	Elec	Energy	Sanitary	Stormwater	Water			17			GSF					
	Site Costs	\$ 15,651,086,66	\$ 10.113,343.10	\$ 17,145,684.94	\$ 4,351,696.69	\$ 835,525,76	\$ 6,266,443.	23						S	54,363,780		1 \$	58,292,130
			1									1		\$				
																	-	

<sup>\*</sup>Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs- 10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve See adjustment factor worksheet for reference to specific markups







# **Option 4 Cost Summary**

Manchester VAMC **Project Costs by Building** Option 4 ACC / Front

\$ 467.1 M

								J	-				m										
Bldg No.	Function Title		Struct		Arch		Elec		Mech		Plumb	Stem Gen		Transp	SF	F Cost (const. costs)	*SF	Cost (in Project Costs)	FCA GSF	**	otal (in project costs)	Years to Midpoint	Total (incl. escalation)
1.1	Construct CLC		5,945,885	e	11,891,770	•	3,864,825	•	4,756,708	e	2,378,354	s -	s	891,883		294.50	¢	540.53	55.000	2	29,729,424	4.0	\$ 33,786,775.1
1.2	CLC Tunnel Connector	0	172,544	9	230.059	0	69.018	•	74,769	0	28.757		6	031,003	0	313.36	9	575.15	1,000	S	575,147	4.0	\$ 653,640.89
1.3		6	33,601,066		45,082,688	S		\$	26,130,856	0	13,811,537			6,700,627	5	386.92	•	710.17	216,000	6	153,396,549	5.0	\$ 179,997,258.93
1.3.1	New Construction - Front Support	S	33,001,000		45,062,000	S	20,111,332	<b>a</b>	20,130,030	4	13,011,557	•	S	0,700,027	0	310.29	\$	569.52	0	5	100,000,040	3.0	3 113,331,230.3
1.3.2	Mechanical	S	374,722	\$	160.595		267,658	\$	1,418,589	S	481,785	s -	S	-	0	291.66	S	535.32	5.000	\$	2.676.582		
1.3.3	Urgent Care	8	1,224,050	g g	1.506.523	8		\$	753.262	\$	470,789	S -	S	188.315	8	342.00	6	627.72	7.500	\$	4.707.885		}-
1.3.4	Radiology Expansion	\$	2,089,604	\$	2,089,604	5		\$	1.194,059	\$	597,030	\$ -	S	149,257	S	406.60	S	746.29	10.000	\$	7,462,870		5
1.3.5	Specialty Care (level1)	\$	3,770,075	\$	5,744,876			\$	3.051,965	\$	1,615,746	\$ -	S	1,077,164	S	376.20	\$	690.49	26,000	\$	17,952,736		
1.3.6	Lobby	\$	747,464	\$	1,162,722			\$	332.206	\$	166,103	\$ -	\$	1142-017-4-1	\$	301.66	\$	553.68	5.000	\$	2,768,385		9
1.3.7	Lab	\$	1,902,952	\$	3,113,921	\$		\$	1.383,965	\$	691,982	\$ -	8		\$	417.05	\$	765.47	11.300	\$	8,649,780		
1.3.8	Specialty Care (level 2)	\$	4,125,991	\$	6,287,224	5		\$	3,340,088	\$	1,768,282	\$ -	\$	1,178,854	\$	342.00	\$	627.72	31,300	\$	19,647,575		
1.3.9	Outpatient Mental Health	\$	2,376,331	\$	3,267,456	\$		\$	1,386,193	\$	1,089,152	\$ -	\$	495,069	\$	263.15	\$	482.99	20,500	\$	9,901,380		
1.3.10	Specialty Care (level 3,)	\$	1,423,665	\$	2,169,394	\$		\$	1,152,490	\$	610,142	\$	\$	406,761	\$	342.00	\$	627.72	10,800	\$	6,779,355		
1.3.11	Specialty Care (level 4)	\$	-	\$		\$		\$	- 12	\$	191	\$ -	\$		\$	342.00	\$	627.72	0	\$			
1.3.12	OR & Cystoscopy	\$	5,097,245	\$	6,426,961	5	3,102,671	\$	4,432,387	8	1,994,574	\$ -	\$	1,108,097	\$	589.00	\$	1,081.07	20,500	\$	22,161,935		
1.3.13	SPD (Central Sterile)	\$	1,509,771	\$	1,207,817	\$	785,081	\$	966,253	\$	966,253	\$ -	\$	603,908	\$	536.75	\$	985.17	6,130	\$	6,039,084		7
1.3.14	Building Gross	\$	8,959,198	\$	11,945,597	\$	4,852,899	\$	6,719,398	\$	3,359,699	\$ -	\$	1,493,200	\$	428.45	\$	786.39	47,470	\$	37,329,991		
1.3.15	Penthouse														11.0		1						
1.3.16	Mechanical	\$	1,756,558	\$	2,342,077	\$	951,469	\$	1,317,418	\$	658,709	\$ -	\$	292,760	\$	275.01	\$	504.76	14,500	\$	7,318,990		
2.1	Demolition:	\$	4,533,519	5		\$	-	\$	- (20	\$	6	\$ -	\$		\$	49.40	\$	90.67	50,000	\$	4,533,519	2.0	\$ 4,832,986.54
2.1	Bldg 20 Demo	\$		\$		\$	0-0	\$	-	\$		\$ -	\$		\$	24.70	\$	45.34	10,000	\$	453,352		
2.2	Bldg 15 Demo Wings	\$	- 2 -	\$		\$		\$	- 6	\$	340	S -	\$	-	\$	24.70	\$	45.34	40,000	\$	1,813,408		
2.3	Bldg's Demo Plan SW	\$		\$	-	\$		\$	2.0	\$	-	\$ -	S		\$	24.70	\$	45.34	40.000	\$	1,813,408		
2.4	Bldg 6 - Demo	\$		\$	- 8	\$		\$	901	\$		\$ -	\$		\$	24.70	\$	45.34	10,000	\$	453,352		
2.3	Bldg 15 - Wings Replacement	\$	6,090,121	5	9,280,184	\$	4,350,086	\$	4,930,098	\$	2,610,052	s -	\$	1,740,034	s	376.20	\$	690.49	42,000	\$	29,000,574	4.0	\$ 32,958,454.2
2.3.1	Outpatient Mental Health (5	\$	1,999,596	S	2,749,444	5	1.083.114	\$	1,166,431	S	916,481	S -	\$	416,582	\$	197.36	\$	362.25	23,000	\$	8,331,649		
2.3.2	Specialty Care (2,3,4)	\$	12,724,002	\$	19,388,955	5	9.088.573	\$	10,300,382	\$	5,453,144	\$ -	\$	3,635,429	\$	282.15	\$	517.87	117,000	\$	60,590,485		
3.1	Bldg 1 - Full Renovation	\$	14,723,598	S	22,138,399	\$	10,171,687	\$	11,466,813	\$	6,369,625	\$ -	S	4,052,012	S	268.07	\$	492.02	79,060	\$	38,898,910	6.0	\$ 47,127,868.4
3.1.1	Chronic Pain Bed (12)	\$	4,001,703	\$	5.922.520	5	2.240.953	\$	2.401.022	\$	1,440,613	5 -	\$	-	\$	256.50	\$	470.79	34.000	\$	16.006.810		
3.1.2	I.P. Beds (15) - Lvl 2	\$	3,302,582	\$	4,887,821	\$	1,849,446	\$	1,981,549	\$	1,188,929	\$ -	\$		8	256.50	\$	470.79	28,060	\$	13,210,326		
3.1.3	Admin Offices	\$	2,226,808	\$	3,291,803	\$	1,258,631	\$	1.549,084	\$	968,177	\$ -	\$	387,271	\$	310.29	\$	569.52	17,000	\$	9.681,774		
3.1.4	Specialty Care	\$	G 41	\$	6	\$		\$	- 0	\$	1.2	\$ -	\$		\$	376.20	\$	690.49	0	\$	-		
3.1.5	Building Gross (w/o PH)	\$	- 9	\$		\$		\$		\$	9	\$ -	\$		\$	428.45	\$	786.39	0	\$	-		
3.2	Bldg 15 - Renovation	\$	2,285,970	\$	3,483,383	5	1,632,836	\$	1,850,547	\$	979,702	\$ -	\$	653,134	S	282.15	\$	517.87	21,020	\$	10,885,573	7.0	\$ 13,617,008.2
3.3	Bldg 18 - Renovation	5	3,264,134	S	4,017,396	5	1,506,523	\$	2,008,698	\$	1,255,436	s -	S	502,174	S	342.00	\$	627.72	20,000	\$	12,554,361	7.0	\$ 15,704,533.33
4.1	Primary Care Addition	S	1,958,480	S	2,410,437	S	903,914	\$	1,205,219	\$	753,262	s -	S	301,305	S	342.00	\$	627.72	12,000	S	7,532,617	5.0	\$ 8,838,858.1
4.2	Boiler Plant Expansion	5	1,032,105	S	1,326,992	-	1,474,436	\$	1,326,992	S	1,179,549	\$ 8,404,284	S		S	1,004.15	\$	1,843.04	8,000	S		4.0	\$ 16,756,607.5
4.3	West Parking Deck (Garage)	5	10,934,630	S	1,388,524	S	2,603,483	S	1,214,959	5	694,262	\$	S	520,697	9	22,042.85	\$	40,458.17	429	S	17,356,556	2.0	\$ 18,503,064.80
4.3	East Parking Garage	6	13,636,427	\$	1,731,610	9	3,246,768	•	1,515,159	\$	865,805	\$ -	3	649,354	0	22,042.85	\$	40,458.17	535	S	21,645,122	4.0	\$ 24,599,160.1
4.4		6	1,176,971		1,741,918	100	2000000	\$	706,183	S	423,710	•		040,004	9	256.50	¢	470.79	10,000	5	4,707,885	5.0	\$ 5,524,286.36
4.4	RRTP (18 Beds) Domiciliary	9		9		-		-		-		•	0		3		•			8		5.0	
	in the contract of the contrac	2	1,271,129	2	1,881,271	2	711,832	4	762,677	_	457,606	<b>3</b>	3		2	256.50	3	470.79	10,800	1	5,084,516	5.0	\$ 5,966,229.2
Site	Site		Access.		Elec		Energy		Sanitary		Stormwater	Water	_					- 15	GSF	4		-	
	Site Costs	\$	15,651,086.66	\$ 1	10,113,343.10	\$	17,145,684.94	\$	4,351,696.69	5	835,525.76	\$ 6,266,443.23		1			-	- 1		\$	54,363,780		\$ 58,292,130
																			TOTAL	5	405,008,892		\$ 467,158,863

\*Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs- 10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve

See adjustment factor worksheet for reference to specific markups

Excludes relocation costs





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## Option 5a Cost Summary

# Manchester VAMC Project Costs by Building Option 5 Full Service Replacement

\$ 621.7 M

Bldg No.	Function Title		Struct		Arch		Elec		Mech		Plumb	Ste	m Gen		Transp	SF	Cost (const. costs)	*SF	Cost (in Project Costs)	FCA GSF	*To	tal (in project costs)	Years to Midpoint	Total (incl. escalation)
1.10	Construct CLC	s	5,945,885	s	11,891,770	s	3,864,825	s	4,756,708	s	2,378,354	S	- 4	S	891,883	5	294.50	S	540.53	55,000	S	29,729,424	4.0	\$ 33,786,775.15
1.20	CLC Tunnel Connector	S	230,059	s	540,638	5	161,041	S	149,538	S	69,018	s		S		\$	313.36	s	575.15	2,000	S	1,150,294	4.0	\$ 1,307,281.77
1.20	New Construction - Front & Side	\$	74,354,006	s	101,770,322	\$	44,201,374	\$	54,870,361	s	30,003,658	\$	100	\$	12,609,784	s	374.56	s	687.47	485,000	\$	333,424,881	4.0	\$ 378,929,351.53
1.2.1	Support	\$	6,549,435	\$	9,681,774	\$	3,701,855	\$	4,556,129	\$	2,847,580	\$		5	1,139,032	\$	310.29	\$	569.52	50,000	\$	28,475,805		
1.2.2	Mechanical	\$	449,666	\$	192,714	\$	321,190	\$	1,702,306	\$	578,142	\$	911	\$	100	\$	291.66	\$	535.32	6,000	\$	3,211,899		
1.2.3	Urgent Care	\$	1,468,860	\$	1,807,828	\$	677,935	\$	903,914	\$	564,946	\$		\$	225,978	\$	342.00	\$	627.72	9,000	\$	5,649,462		
1.2.4	Radiology	\$	3,677,702	\$	38.50.085.00	_	2,364,237	\$	2,101,544	\$	1,050,772	\$		\$	262,693	\$	406.60	\$	746.29	17,600	\$	13,134,651		
1.2.5	Specialty Care (2,3,4)	\$	5,452,108	\$	21731131	\$	0,001,000	\$	4,413,611	\$	2,336,618	\$	4	\$	1,557,745	\$	376.20	\$	690.49	37,600	\$	25,962,419		
1.2.6	Lobby	\$	747,464	\$		_	359,890	\$	332,206	\$	166,103	\$	- 3	\$	J.e.	\$	301.66	\$	553.68	5,000	\$	2,768,385		
1.2.7	Lab	\$	1,902,952	\$		\$	Tipe steed	\$	1,383,965	\$	691,982	\$	*	\$	945	\$	417.05	\$	765.47	11,300	\$	8,649,780		
1.2.8	Chronic Pain Beds	\$	807,580	\$	-4000000	_	102,210	\$	484,548	\$	290,729	\$		\$		\$	325.92	\$	598.21	5,400	\$	3,230,318		
1.2.9	Wellness Center (Rehab)	\$	2,394,716	\$		_	1,532,618	\$	1,532,618	\$	957,886	\$		\$	383,154	\$	312.51	\$	573.58	16,700	\$	9,578,862		
1.2.10	Support	\$	4,428,728	\$			-10001.0.1	\$	3,080,854	\$	1,925,534	\$	181	\$	770,214	\$	310.29	\$	569.52	33,810	\$	19,255,339		
1.2.11	M/S (24) & ICU (6) Beds	\$	4,753,221	\$	13.000.15.000.0	-	mino.iee.c	\$	2,851,932	\$	1,711,159	\$		\$	1.57	\$	440.80	\$	809.06	23,500	\$	19,012,882		
1.2.12	IP Psychiatric Beds (15)	\$	1,345,966	\$	110 cm   c co	\$	753,741	\$	807,580	\$	484,548	\$	- 3	\$		\$	325.92	\$	598.21	9,000	\$	5,383,864		
1.2.13	Specialty Care (1,2,3)	\$	4,528,440	\$	0,000,110	\$	3,234,600	\$	3,665,880	\$	1,940,760	\$	9.	\$	1,293,840	\$	376.20	\$	690.49	31,230	\$	21,563,998		
1.2.14	OR & Cystoscopy	\$	7,161,008	\$	0,020,000	_	1,000,011	\$	6,226,963	\$	2,802,133	\$	9.1	\$	1,556,741	\$	589.00	\$	1,081.07	28,800	\$	31,134,815		
1.2.15	SPD (Central Sterile)	\$	1,509,771	\$	130 7143 11	\$	785,081	\$	966,253	\$	966,253	\$	- 0	\$	603,908	\$	536.75	\$	985.17	6,130	\$	6,039,084		
1.2.16	Outpatient MH	\$	2,376,331	\$	-3-7-5-5-5-5	-		\$	1,386,193	\$	1,089,152	\$		\$	495,069	\$	263.15	\$	482.99	20,500	\$	9,901,380		
1.2.17	Specialty Care (level 4)	\$	1,348,527	\$	2,054,898	\$	963,233	\$	1,091,664	\$	577,940	\$	- 4	\$	385,293	\$	376.20	\$	690.49	9,300	\$	6,421,556		
1.2.18	Administration	\$		\$		\$	- 4	\$		\$	- 1-1	\$	141	\$		\$	310.29	\$	569.52	0	\$			
1.2.19	Administration	\$	3,798,672	\$	5,615,429	\$	2,147,076	\$	2,642,555	\$	1,651,597	\$	- Q-	\$	660,639	\$	310.29	\$	569.52	29,000	\$	16,515,967		
1.2.20	Building Gross	\$	15,123,247	\$		\$	21.20.11.02	\$	11,342,435	\$	5,671,218	\$		\$	2,520,541	\$	428.45	\$	786.39	80,130	\$	63,013,529		
1.2.21	Circ Spine	\$	4,529,613	\$	6,039,485	\$	2,453,541	\$	3,397,210	\$	1,698,605	\$	191	\$	754,936	\$	428.45	\$	786.39	24,000	\$	18,873,389		
1.2.22	Penthouse																							
1.2.23	Mechanical	\$	3,755,399	\$	5,007,199	\$	2,034,174	\$	2,816,549	\$	1,408,275	\$	× .	\$	625,900	\$	275.01	\$	504.76	31,000	\$	15,647,496		
2.1	Bldg Demo	\$		\$	-	\$	7.0	\$	-	\$	1911	\$		5		\$	24.70	\$	45.34	100,000	\$	4,533,519	1.0	\$ 4,680,858.63
3.1	Bldg 15 - Demo	\$	2,465,049	\$	3,756,265	\$	1,760,749	\$	1,995,516	\$	1,056,449	\$		\$	704,300	\$	376.20	\$	690.49	17,000	S	11,738,328	5.0	\$ 13,773,887.32
3.2	Bldg 18 - Renovation	\$	3,264,134	5	4,017,396	\$	1,506,523	\$	2,008,698	\$	1,255,436	\$		\$	502,174	\$	342.00	\$	627.72	20,000	\$	12,554,361	8.0	\$ 16,214,930.67
4.1	Bldg 1 Demo	\$	+	\$		\$		\$	*	\$	40	\$		\$		\$	34.58	\$	63.47	171,000	\$	10,853,245	6.0	\$ 13,149,219.43
5.1	Public Link & Plaza	\$	2,405,844	\$	5,653,734	\$		\$	1,563,799	\$	721,753	\$		\$	*	\$	204.81	\$	375.91	32,000	S	12,029,221	7.0	\$ 15,047,624.28
6.1	Primary Care Addition	\$	1,958,480	\$	2,410,437	\$	903,914	\$	1,205,219	\$	753,262	\$		\$	301,305	\$	342.00	\$	627.72	12,000	\$	7,532,617	7,0	\$ 9,422,720.00
6.2	Boiler Plant Expansion	\$	1,032,105	\$	1,326,992	_	1,474,436	\$	1,326,992	5	1,179,549	\$	8,404,284	\$		\$	1,004.15	\$	1,843.04	8,000	S	14,744,358	4.0	\$ 16,756,607.53
6.3	East Parking Garage	\$	15,930,405	8	2,022,909	\$	3,792,954	S	1,770,045	S	1,011,454	S	*	\$	758,591	S	22,042.85	\$	40,458.17	625	\$	25,286,358	7.0	\$ 31,631,274.91
6.4	East Parking Deck Connector	s	378,920	\$	48,117	\$	90,219	\$	42,102	s	24,058	\$		\$	18,044	s	327.69	\$	601,46	1,000	\$	601,461	7,0	\$ 752,381.21
6.5	West Parking Garage	\$	9,277,868	\$	1,178,142	\$	2,209,016	\$	1,030,874	S	589,071	\$	- 6	\$	441,803	\$	22,042.85	S	40,458.17	364	\$	14,726,775	2,0	\$ 15,699,570.13
6.6	RRTP (18 Beds)	\$	1,176,971	\$	1,741,918		659,104	\$	706,183	100	423,710	\$		\$		\$	256.50	\$	470.79	10,000	\$	4,707,885	7.0	\$ 5,889,200.00
6.7	Domiciliary	\$	1,271,129	\$	1,881,271	S	711,832	5	762,677	5	457,606	\$	- 2	\$	_4-1	S	256,50	\$	470.79	10,800	S	5,084,516	7.0	\$ 6,360,336.00
Site	Site		Access.		Elec		Energy		Sanitary	5	Stormwater		Water							GSF				
ALT H	Site Costs	5	15,651,086.66	\$	10,113,343.10	\$ 1	7,145,684.94	\$	4,351,696.69	\$	835,525.76	\$ 6,	266,443.23		-						\$	54,363,780		\$ 58,292,130
												1								1	\$	-		
															-	1				TOTAL		543,061,024		\$ 621,694,148

\*Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs- 10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve See adjustment factor worksheet for reference to specific markups





# Option 5b Cost Summary

# Manchester VAMC Project Costs by Building Option 5b Full Service Replacement- ACC

\$ 559.3 M

Bldg No.	Function Title	Г	Struct		Arch		Elec		Mech		Plumb	Ct	em Gen		Troppo	SF	Cost (const.	*SF	Cost (in Project	FCA GSF	*T	otal (in project	Years to		Total (incl.
blug No.	runction ride		Struct		Aicii		Elec		Mech		Tiunio	St	em Gen		Transp		costs)		Costs)	FCA GSF		costs)	Midpoint	,	escalation)
												-													
1.10	Construct CLC	\$	5,945,885	\$	11,891,770	\$	3,864,825	S	4,756,708	\$	2,378,354	\$		S	891,883	\$	294.50	\$	540.53	55,000	\$	29,729,424	4.0	\$	33,786,775.15
1.20	CLC Tunnel Connector	\$	230,059	5	540,638	\$	161,041	\$	149,538	\$	69,018	\$	*	\$		\$	313.36	\$	575.15	2,000	\$	1,150,294	4.0	\$	1,307,281.77
	New Construction - Front & Side	5	61,930,637	\$	84,230,514	5	37,191,990	s	46,221,262	\$	25,193,505	\$	140	S	11,206,763	\$	370.17	\$	679.42	410,000	s	278,561,501	4.0	S	316,578,440.09
1.20	Support	8	6,549,435	\$	9,681,774	8	3,701,855	\$	4,556,129	S	2,847,580	s		\$	1,139,032	\$	310.29	¢	569.52	50,000	S	28,475,805			
1.2.2	Mechanical	5	449,666	S	192,714	S	321,190	\$	1,702,306	\$		S		S	7,105,002	S	291.66	\$	535.32	6,000	S	3,211,899			
1.2.3	Urgent Care	8	1,224,050	\$	1,506,523	\$	564.946	8	753,262	\$		S	- 04	8	188.315	S	342.00	S	627.72	7.500	\$	4,707,885			
1.2.4	Radiology	\$	3,677,702	\$	3,677,702	S	2,364,237	\$	2,101,544	\$		S	-	\$	262,693	S	406.60	\$	746.29	17,600	\$	13,134,651			
1.2.5	Specialty Care (Level 1)	\$	5,452,108	S	8,307,974	8	3,894,363	\$		S		S	F-1	5	1,557,745	\$	376.20	S	690.49	37,600	\$	25,962,419			
1.2,6	Lobby	\$	747,464	\$	1,162,722	5	359,890	\$	332,206	\$		S	14	5	-	\$	301.66	\$	553.68	5.000	\$	2,768,385			
1.2.7	Lab	\$	1,902,952	\$	3,113.921	\$	1,556,960	\$	2,2,10,10,10,1	\$		\$	- 2	\$	34.)	\$	417.05	\$	765.47	11,300	\$	8,649,780		11	
1.2.8	Chronic Pain Beds	\$	807,580	\$	1,195,218	\$	452,245	\$	484,548	\$		\$	-	\$	1.71	\$	325.92	\$	598.21	5,400	\$	3,230,318			
1.2.9	Wellness Center (Rehab)	\$	2,394,716	\$	2,777,870	\$	1,532,618	\$	1,532,618	\$		\$	- 145	\$	383,154	\$	312.51	\$	573.58	16,700	\$	9,578,862			
1.2.10	Support	\$	1,702,853	\$	2,517,261	\$		\$	1,184,593			\$	2.	\$	296.148	8	310.29	\$	569.52	13,000	\$	7,403,709			
1.2.11	M/S (20) & ICU (5) Beds	\$		\$	-	\$		\$		\$	761	\$	(4)	\$		\$	440.80	\$	809.06	0	\$				
1.2.12	IP Psychiatric Beds (12)	\$	1,345,966	\$	1,992,030	S	753,741	\$	807,580	\$	484.548	\$	- 8-	\$	9.0	S	325.92	\$	598.21	9.000	8	5,383,864			
1.2.14	OR & Cystoscopy	\$	5,097,245	\$	6,426,961	\$	3,102,671	\$	4,432,387	\$	1,994,574	\$	- G-11	\$	1,108,097	\$	589.00	\$	1,081.07	20,500	\$	22,161,935			
1.2.15	SPD (Central Sterile)	\$	1,509,771	\$	1,207,817	\$	785,081	\$	966,253	\$	966,253	\$		\$	603,908	\$	536.75	\$	985.17	6,130	\$	6,039,084			
1.2.13	Specialty Care (Level 3)	\$	5,872,616	\$	8,948,749	\$	4,194,726	\$	4,754,023	\$	2,516,836	\$	76	\$	1,677,890	\$	376.20	\$	690.49	40,500	\$	27,964,839			
1.2.16	Outpatient MH	\$	2,376,331	\$	3,267,456	\$	1,287,179	\$	1,386,193	\$	1,089,152	\$	= =(k-1)	\$	495,069	\$	263.15	\$	482.99	20,500	\$	9,901,380		1	
1.2.17	Specialty Care (level 4)	\$		\$	7.	\$		\$		\$		\$	14	\$		\$	376.20	\$	690.49	0	\$	- 31			
1.2.18	Administration (4th)	\$	392,966	\$	580,906	\$	222,111	\$	273,368	\$	170,855	\$		\$	68,342	S	310.29	\$	569.52	3,000	\$	1,708,548	-		
1.2.19	Administration (5th)	\$	3,012,740	\$	4,453,616	\$	1,702,853	\$	2,095,819	\$	1,309,887	\$		\$	523,955	\$	310.29	\$	569.52	23,000	\$	13,098,870			
1.2.20	Building Gross	\$	14,017,266	\$	18,689,688	\$	7,592,686	\$	10,512,950	\$	5,256,475	\$	1-01	\$	2,336,211	\$	428.45	\$	786.39	74,270	\$	58,405,276			
1.2.21	Circ Spine	\$	3,397,210	\$	4,529,613	\$	1,840,155	\$	2,547,908	\$	1,273,954	\$	6.7	\$	566,202	\$	428.45	\$	786.39	18,000	\$	14,155,042			
1.2.22	Penthouse																								
1.2.23	Mechanical	\$	3,028,548	\$	4,038,063	\$	1,640,463	\$	2,271,411	\$	1,135,705	\$		\$	504,758	\$	275.01	\$	504.76	25,000	\$	12,618,948			
2.1	Bldg Demo	\$		\$		S		\$		\$	- 1	\$	2.1	5	2	\$	24.70	\$	45.34	100,000	\$	4,533,519	1.0	5	4,680,858.63
3.1	Bldg 15 - Demo	\$	2,465,049	\$	3,756,265	\$	1,760,749	S	1,995,516	\$	1,056,449	\$	4	\$	704,300	\$	376.20	\$	690.49	17,000	\$	11,738,328	5.0	\$	13,773,887.32
3.2	Bldg 18 - Renovation	\$	3,264,134	\$	4,017,396	\$	1,506,523	\$	2,008,698	\$	1,255,436	\$		\$	502,174	\$	342.00	\$	627.72	20,000	\$	12,554,361	8.0	\$	16,214,930.67
4.1	Bldg 1 Demo	\$	•	\$		5		\$		\$		\$	- (	\$	• 1	\$	34.58	\$	63.47	171,000	\$	10,853,245	6.0	\$	13,149,219.43
5.1	Public Link & Plaza	5	2,405,844	\$	5,653,734	\$	1,684,091	S	1,563,799	\$	721,753	\$	+	\$		\$	204.81	\$	375.91	32,000	\$	12,029,221	7.0	5	15,047,624.28
6.1	Primary Care Addition	\$	1,958,480	\$	2,410,437	\$	903,914	\$	1,205,219	\$	753,262	\$		\$	301,305	\$	342.00	\$	627.72	12,000	\$	7,532,617	7.0	\$	9,422,720.00
6.2	<b>Boiler Plant Expansion</b>	\$	1,032,105	5	1,326,992	\$	1,474,436	S	1,326,992	\$	1,179,549	\$	8,404,284	\$	*	\$	1,004.15	\$	1,843.04	8,000	\$	14,744,358	4.0	\$	16,756,607.53
6.3	East Parking Garage	\$	15,930,405	\$	2,022,909	\$	3,792,954	\$	1,770,045	\$	1,011,454	\$	*	\$	758,591	\$	22,042.85	\$	40,458.17	625	\$	25,286,358	7.0	\$	31,631,274.91
	East Parking Deck	S	378,920	s	48,117	s	90,219	\$	42,102	s	24,058	s	4	s	18,044	s	327.69	s	601.46	1,000	s	601,461	7.0	s	752,381.21
6.4	Connector	1	Treatment of the Parket						-	10				1	7-10-57		4-1	-	200.000	-			100		1 2 3 1 3 1 3 1
6.5	West Parking Garage	5	9,277,868	5	1,178,142	5	2,209,016	5	1,030,874	-	589,071	\$		5	441,803	5	22,042.85	\$	40,458.17	364	\$	14,726,775	2.0	\$	15,699,570.13
6.6	RRTP (18 Beds)	5	1,176,971	\$	1,741,918	5	659,104	>	706,183	5	423,710	\$		5	-	\$	256,50	\$	470.79	10,000	\$	4,707,885	7.0	5	5,889,200.00
6.7	Domiciliary	5	1,271,129	5	1,881,271	5	711,832		762,677	\$	457,606	\$	//	5	25	5	256.50	5	470.79	10,800	\$	5,084,516	7.0	\$	6,360,336.00
Site	Site		Access.		Elec		Energy		Sanitary	3	Stormwater		Water						- 4	GSF					
	Site Costs	\$	15,651,086.66	\$ 1	10,113,343.10	\$	17,145,684.94	\$ 4	1,351,696.69	\$	835,525.76	\$ 6	,266,443.23					\$	50.87	1,146,003	\$	54,363,780		\$	58,292,130
											1	1		1							\$	61			
																			- 1	TOTAL	\$	488,197,643		\$	559,343,237

<sup>\*</sup>Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs- 10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve See adjustment factor worksheet for reference to specific markups





## Option 6 Cost Summary

Manchester VAMC
Project Costs by Building

\$ 122.9 M

Option 6 Bare Bones: Utility Replacement and Distribution Replacement

g	Function Title		Struct		Arch	Elec		Mech	Plumb	Stem Ge	n	1	ransp	SF	Cost (const. costs)	*SF	Cost (in Project Costs)	SF	*1	otal (in project costs)	Years to Midpoint		Total (incl. escalation)
-	Basis for Interior Distribution U	nit C	osts		-						-		-	Н		J	-		1			1	
$\rightarrow$	Air Distribution									T .				S	36.60	\$	67.17						
1	Mechanical Equipment							-		7	- 1			S	15.60	s	28.63						-
$\rightarrow$	Plumbing Distribution (incl stear	n)									- 1			\$	18.40	\$	33.76						
$\rightarrow$	Electrical Distribution	-									- "			.\$	21.52	\$	39.49						
	Fire Protection/Sprinkler													S	6.54	\$	12.00						
	Patch Floors										- 17			S	1.82	\$	3.34						
$\exists$													Tota	\$	100.46	\$	184.39					I	
	Building 1 Main Hospital	\$	634,691	\$	1,651,890	\$ 9,203,020	\$	15,867,276	\$ 6,029,56	5 \$		\$		S	123,99	S	206.81	172,101	5	33,386,442	2.0	\$	35,591,82
$\rightarrow$	CONTRACTOR OF THE PARTY OF THE	S	634,691	\$		\$ 9,203,020	\$	15,867,276	\$ 6,029,56	5 \$	-	\$	*	\$	100.46	\$	184.39	172,101	\$	31,734,552	2.0	\$	33,830,81
-	Window Replacement	\$		\$	1,651,890	S -	\$	J = 14	\$	\$	= 20	\$	- 1	5	3,600.00	\$	6,607.56	250	\$	1,651,890	2.0	\$	1,761,00
	Building 2 Quarters	5	8,792	5		5 127,483	\$	219,799	\$ 83,52	4 \$		\$		S	125.64	S	209.56	2,384	\$	439,598	4.0	5	499,59
	Interior Distribution	S	8,792	\$	-	\$ 127,483	\$	219,799	\$ 83,52	4 \$		\$		\$	100.46	\$	184.39	2,384	\$	439,598	4.0	\$	499,59
	Building 3 A&MM/Fiscal	\$	14,398	5	4.	\$ 208,765	\$	359,939	\$ 136,77	7 \$	-	S		5	121.68	S	202.96	3,904	\$	719,878	3.0	\$	792,37
	Interior Distribution	\$	14,398	\$		\$ 208,765	\$	359,939	\$ 136,77	7 \$	- 4	\$	-	S	100.46	\$	184.39	3,904	\$	719,878	3.0	\$	792,37
- 1	Building 4 MCCR/Resident Quarters	\$	13,771	\$		\$ 199,674	\$	344,265	\$ 130,82	1 \$		\$		\$	121.68	\$	202.96	3,734	\$	688,531	3.0	\$	757,86
	Interior Distribution	\$	13,771	\$		\$ 199,674	\$	344,265	\$ 130,82	1 \$	- 7	\$		\$	100.46	\$	184.39	3,734	\$	688,531	3.0	\$	757,86
	Building 5 HRMS/DSS	\$	18,487	\$	- 9	\$ 268,068	\$	462,186	\$ 175,63	1 \$		\$		\$	121.68	\$	202.96	5,013	\$	924,372	3.0	\$	1,017,45
	Interior Distribution	S	18,487	\$	-	\$ 268,068	\$	462,186	\$ 175,63	1 \$	- 6	\$	- 4	\$	100.46	\$	184.39	5,013	\$	924,372	3.0	\$	1,017,45
	Building 6 Research	\$	12,531	\$	*	\$ 181,706	\$	313,287				\$		5	121.68	\$	202.96	3,398	\$	626,574	3.0	\$	689,67
	Interior Distribution	5	12,531	\$		\$ 181,706	-	2.123,412.	\$ 119,04	-	= 4,	\$		\$	100.46	_	184.39	3,398	\$	626,574	3.0	\$	689,6
$\rightarrow$	Building 13 Storage/Garage	\$	2,084	S	14.0	\$ 30,213		52,092			-	\$		S	125.64		209.56	565	\$	104,183	4.0	\$	118,4
$\rightarrow$	Interior Distribution	\$	2,084	\$		\$ 30,213	_	52,092			€.	\$	-	\$	100.46		184.39	565	\$	104,183	4.0	\$	118,40
$\rightarrow$	Building 14 Outleased/Garage	\$	2,084	\$		\$ 30,213		52,092				\$	- 4	\$	125.64		209.56	565	\$	104,183	4.0	\$	118,4
$\rightarrow$	Interior Distribution	\$	2,084	\$		\$ 30,213		52,092	\$ 19,79		-	\$		\$	100.46	-	184.39	565	\$	104,183	4.0	\$	118,4
$\rightarrow$	Building 15 Nursing Home	\$	267,660	\$	330,378	\$ 3,881,074		6,691,508	\$ 2,542,77		- 3	\$		5	124.68		207.97	72,578	\$	13,713,393	3.0	\$	15,094,3
$\rightarrow$	Interior Distribution	5	267,660	5		\$ 3,881,074	\$	6,691,508	\$ 2,542,77			\$	-	\$	100.46		184.39	72,578	5	13,383,015	3.0	\$	14,730,7
$\rightarrow$	Window Replacement	\$	44,413	\$	231,265	\$ 643,994	4	1,110,334	\$ 421,92	7 \$	-	\$		\$	3,600.00 134.35		6,607.56 224.10	50 12,043	\$	330,378 <b>2,451,933</b>	3.0	\$	363,6 2,698,8
$\rightarrow$	Building 18 ACC Interior Distribution	S	44,413	9	The second second second	\$ 643,994	9	1,110,334	\$ 421,92		- 5	\$		9	100.46		184.39	12,043	4	2,451,933	3.0	\$	2,698,8
$\rightarrow$	Window Replacement	\$	44,413	9		\$ 643,994	0	1,110,334	\$ 421,92	/ S	-	\$	_	9	3,600.00	_	6,607.56	35	\$	2,220,668	3.0	\$	254,5
_	Building 7 Expansion (CUP)	-	\$619,263	9	\$796,195	\$884,661	1	\$796,195	\$707,729	\$5,042,57	0	Ψ	\$0	5	1,004.15		1.843.04	4,800	S	8,846,615	2.0	S	9,430,9
1	Site		Access.		Elec	Energy		Sanitary	Stormwater	Water				ľ	Unit Cost		1,010101	LF/SF/EA	1	0,0 10,0 10		1	2,,00,0
7	Site Costs	S		5 1		\$ 17,780,710.31	S			1	3.72			1				37,07,137	S	52,315,453		S	56,108,4
_	2 30010		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			3,512,616161			1			1					S				23,100,1
$\rightarrow$					_		1			1								TOTAL	1	114,321,153		S	122,918,3

<sup>\*</sup>Addtl Station Specific Cost Drivers with multipliers

Pricing includes total project costs-10% Design Contingency, 10% Technical Services (includes A/E's fees), 5% Market Conditions, 3% CM Fee, 5% Contingency Reserve

Building Distribution costs include (air distribution costs \$36.60/sf, Mechanical Equipment \$15.60/sf, Plumbing Distribution \$18.40/sf, Electrical Distribution \$21.52/sf, Fire Protection/Sprinkler \$6.54/sf, Patching floors \$1.82/sf

Costs were arrived assuming a single phased, multi year project. Costs will increase when approaching as a series of separate minor/NRM projects.

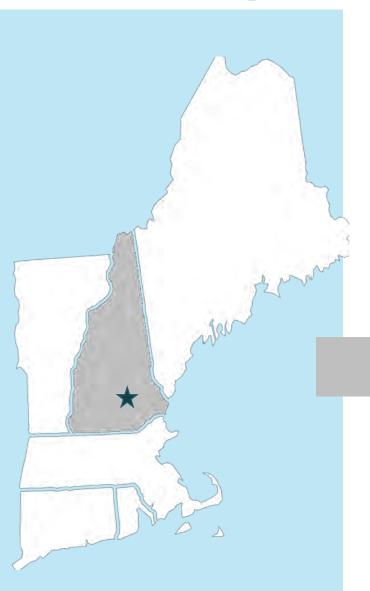
Utility Costs include redundancy including additional storage of wet utilities

Excludes: replacement of ceilings, light fixtures, plumbing fixtures, finishes, communications





# VISN 1



**Questions / General Discussion** 





Options	Description	Project Cost \$M	Schedule Years	Advantages	Disadvantages
1	Full M/S Side Addition	512.3	7	Less site disruption than 2-5     Full Med Surg. Program (New Const.)     Additional Parking     Enhanced Infrastructure     Improved Services	Substandard clinic space in     Building 1     Clinical addition remote from     Main Entry
2	Full M/S Front Addition	516.2	8	New front image for Medical Center     Full Med Surg. Program (New Const.)     Additional Parking     Enhanced Infrastructure     Improved Services	Substandard clinic space in Building 1     Additional site disruption and longer schedule than Opt. 1
3	Subacute Front Addition	498.0	8	New front image for Medical Center     Additional Parking     Enhanced Infrastructure     Improved Services	Substandard clinic space in     Building 1     Additional Site disruption and     longer schedule
4	Expanded ACC Front Addition	467.1	7	All clinics in new building     New front image for Medical     Center     Additional Parking     Enhanced Infrastructure     Improved Services	Additional site disruption     Several Building 1 floors     remain vacant













Options	Description	Project Cost \$M	Schedule Years	Advantages	Disadvantages
5a	Full Service M/S Replace Building 1	621.7	8	<ul> <li>All programs in new building</li> <li>Building 1 no longer a liability</li> <li>Best option for improved space and flexibility</li> <li>Full Med Surg. Program (New Const.)</li> <li>Additional Parking</li> <li>Enhanced Infrastructure</li> <li>Improved Services</li> </ul>	Most expensive Full Service option     Additional Site disruption     Longer Schedule than Opt.1
5b	ACC Replace Building 1	559.3	8	<ul> <li>All programs in new building</li> <li>Building 1 no longer a liability</li> <li>Additional Parking</li> <li>Enhanced Infrastructure</li> <li>Improved Services</li> </ul>	Most expensive ACC option     Additional Site disruption     Longer Schedule than Opt.4
6	"Bare Bones"	122.9	3-4	Least expensive option     Least site disruption     Enhanced Infrastructure	<ul> <li>Growth in Clinical Programs not accommodated</li> <li>Lack of swing space for phasing</li> <li>Most disruptive to clinical service operations</li> <li>Space Gap will be increased by projected clinical program growth</li> <li>Clinical space remains substandard in existing aged facility</li> <li>No added parking</li> </ul>









