Marshall Valuation Service Analysis A.L.S. HEALTHCARE CONSULTANT SERVICES PRINCE GEORGE'S REGIONAL MEDICAL CENTER Hospital

	I. The Marshall and Swift Guideline			
	_		M&S Page #	
a	Type		Gen. Hospital or Conval. Hosp.	
b	Construction Quality/Class	Good/A		
C .	Stories	10		
d	Perimeter	1,613	for use in Perimtr Ad	j.
e	Average Floor to Floor Height	17.0		
f	Square Feet	667,411		
	f.1 Average floor Area	66,741	for use in Perimtr Ad	j.
	A. Base Costs			
g	Basic Structure	\$336.71	Section 15-24 - 26	
h	Elimination of HVAC cost for adjustment	0	Section 15-25	
1	HVAC Add-on for Mild Climate	0	Section 15-25	
j	HVAC Add-on for Extreme Climate	0	Section 15-25	
k	Total Base Cost	\$336.71	Section 15-25	
	Aujustine			
	nt for			
	Departme ntal			
	Differenti			
	al Cost			
	Factors	1.06		
	Adjusted Total Base Cost	\$356.67		
	B. Additions			
1	Elevator (If not in base)	\$0.00	Section 15-36	
m	Other	\$0.00	Section 15-25	
n	Subtotal	\$0.00		
0	Total	\$356.67		
	C. Multipliers			
р	Perimeter Multiplier	0.909804254	15-37 Interpola	ted
q	Product	\$324.50		
r	Height Multiplier	1.12	15-37	
S	Product	\$362.18		
t	Multi-story Multiplier	1.035	15-25	
u	Product	\$374.86	13 23	
u	Troudet	Ç374.00		
	D. Sprinklers			
V	Sprinkler Amount	\$2.03	15-36	
w	Subtotal	\$376.89		
	E. Update/Location Multipliers			
x	Update Multiplier	1.06	8/13 99-3	
y	Product	\$399.50	O ₁ ±3	
,	110000	Ç555.30		
Z	Location Multipier	1.07	7/13 99-5	
aa	Product	\$427.47		
bb	Calculated Square Foot Cost Standard	\$427.47		

Marshall Valuation Service Analysis A.L.S. HEALTHCARE CONSULTANT SERVICES PRINCE GEORGE'S REGIONAL MEDICAL CENTER Penthouse

	I. The Marshall and Swift Guidel	<u>ine</u>			M&S Page #
а	Туре	M	/echanic	cal Penthouse	
b	Construction Quality/Class		recriaine	Good/A	
С	Stories			7	for use in Perimtr Adj.
d	Perimeter			250	
e	Average Floor to Floor Height			20.00	
f	Square Feet			4,288	for use in Perimtr Adj.
	·	Average floor Area		4,288	•
	A. Base Costs				Section 15-19
g		Basic Structure	\$	82.55	Section 15-25
h		Elimination of HVAC cost for adjustment	t	0	Section 15-25
1		HVAC Add-on for Mild Climate		0	Section 15-25
j		HVAC Add-on for Extreme Climate		0	Section 15-25
k	Total Base Cost			\$82.55	
	B. Additions				Section 15-36
1		Elevator (If not in base)		\$0.00	Section 15-25
m		Other		\$0.00	
n	Subtotal			\$0.00	
0	Total			\$82.55	
	C. Multipliers				15-37
p	Perimeter Multiplier			0.997784	Interpolate
q		Product	\$	82.37	
					15-37
r	Height Multiplier			1.069	
S		Product		\$88.05	
					15-25
t	Multi-story Multiplier			1.035	
u		Product		\$91.13	
	D. Sprinklers				15-36
V		Sprinkler Amount		\$1.53	
W	Subtotal			\$92.66	
	E. Update/Location Multipliers				99-3
Х	Update Multiplier			1.06 8/13	
У		Product		\$98.22	
					99-5
Z	Location Multipier			1.07 7/13	
aa		Product		\$105.10	
bb	Calculated Square Foot Cost Sta	ndard		\$105.10	



Marshall Valuation Service Analysis A.L.S. HEALTHCARE CONSULTANT SERVICES SHORE REGIONAL MEDICAL CENTER PRINCE GEORGE'S REGIONAL MEDICAL CENTER

	Bei	MVS nchmark	Sq. Ft.	Total Cost Based on MVS
Standard				
"Tower" Component		\$427.47	667,411	\$ 285,297,236.48
Mechanical Penthouse		\$105.10	4,288	\$ 450,657.75
Consolidated	\$	425.41	671,699	\$ 285,747,894.23

Marshall Valuation Service Analysis A.L.S. HEALTHCARE CONSULTANT SERVICES PRINCE GEORGE'S REGIONAL MEDICAL CENTER

Clinical Building Component

Ш.	The	Proi	ect

A. Base Calculations	Actual	Per Sq. Foot
Building	\$257,572,688	\$383.46
Fixed Equipment	In Building	\$0.00
Site Preparation	\$23,904,693	\$35.59
Architectual Fees	\$17,350,181	\$25.83
Permits	\$5,397,834	\$8.04
Capitalized Construction Interest	Calculated Below	Calculated Below
Subtotal	\$304,225,396	\$452.92

B. Extraordinary Cost Adjustments

Project Costs

Canopy	\$3,500,000 Building
Foundation Drainage/Dewatering	\$300,000 Building
LEED Silver Premium	\$10,302,908 Building
Redundant Electric Service	\$2,500,000 Building
Redundant Water Service	\$300,000 Building
Jurisdictional Hook-up Fees	\$500,000 Permits
Premium for Concrete Frame Construction	\$1,750,000 Building
Demolition	\$1,000,000 Site
Storm Drains	\$1,500,000 Site
Rough Grading	\$3,500,000 Site
Landscaping	\$900,000 Site
Sediment Control & Stabilization	\$100,000 Site
Roads	\$500,000 Site
Helipad	\$1,500,000 Building
Deep Foundations	\$500,000 Site
Utilities	\$5,600,000 Site
Signs	\$500,000 Building
Pilings	\$500,000 Site
Hillside Foundation	\$1,500,000 Site
Premium for Paying Prevailing Wage	\$16,584,385 Building
Premium for Paying Prevailing Wage	\$581,329 Site

Total Cost Adjustments

\$53,918,621 18.8%

-1.33%

C. Adjusted Project Cos	t	Per	Square Foot
Building		\$220,335,396	\$328.03
Fixed Equipment			\$0.00
Site Preparation		\$7,723,365	\$11.50
Architectual Fees		\$14,089,188	\$20.98
Permits		\$4,897,834	\$7.29
Subtotal		\$247,045,783	\$367.79
Capitalized Construction Interest		\$34,904,545	\$51.96
Total		\$281,950,328	\$419.76
	MAYO Davida and and	6435.44	
	MVS Benchmark	\$425.41	
	The Project	\$419.76	
	Difference	-\$5.65	-\$3,797,566

Departmental Cost Differential Analysis

Department/Function	BGSF	MVS Department Name	MVS Differenti al Cost Factor	Cost Factor X SF
ACUTE PATIENT CARE				
ACUTE CARE	95,312	Inpatient Unit	1.06	101,031
INTENSIVE CARE	22,288	Inpatient Unit	1.06	23,625
POST-PARTUM	17,584	Inpatient Unit	1.06	18,639
NEONATAL INTENSIVE CARE UNIT	16,912	Inpatient Unit	1.06	17,927
MT. WASHINGTON PEDIATRICS	12,096	Inpatient Unit	1.06	12,822
DIAGNOSTICS & TREATMENT				
SURGERY	36,000	Operating Suite, Total	1.59	57,240
CARDIAC CATH LAB	11,760	Operating Suite, Total	1.59	18,698
GI - ENDOSCOPY	2,280	Operating Suite, Total	1.59	3,625
ADULT/PEDS ED	30,000	Emergency Suite	1.18	35,400
TRAUMA	8,280	Emergency Suite	1.18	9,770
UNIVERSAL CARE / OBSERVATION	29,640	Inpatient Unit	1.06	31,418
IMAGING	22,440	Radiology	1.22	27,377
NON-INVASIVE CARDIOLOGY	3,480	Offices	0.96	3,341
NEURODIAGNOSTICS	1,200	Laboratories	1.15	1,380
LABOR & DELIVERY	10,680	Obstetrical Suite Only	1.44	15,379
C-SECTION	3,120	Operating Suite, Total	1.59	4,961
DIALYSIS	2,040	Laboratories	1.15	2,346
PT/OT	2,880	Physical Medicine	1.09	3,139
CLINICAL SUPPORT				
LABORATORY / PATHOLOGY	9,870	Laboratories	1.15	11,351
PHARMACY	3,675	Pharmacy	1.33	4,888
OTHER CLINICAL SUPPORT	6,510	Offices	0.96	6,250
NON CLINICAL SUPPORT				
DIETARY / DINING	17,040	Dietary	1.52	25,901
MATERIALS / BIO MED / EVS	11,280	Storage and Refrigeration	1.6	18,048
CENTRAL STERILE	7,680	Central Sterile Supply	1.54	11,827
FACILITIES & SUPPORT SERVICES	17,040	Offices	0.96	16,358
IT / TELECOM	2,880	Offices	0.96	2,765
OFFICES & EDUCATION				
OFFICE / ADMINISTRATION	9,870	Offices	0.96	9,475
ON CALL	6,500	Offices	0.96	6,240

Departmental Cost Differential Analysis

Departmental Cost Differential Analysis			MVS	
		MVS Department	Differenti al Cost	Cost Factor
Department/Function	BGSF	Name	Factor	X SF
CONFERENCE CENTER	4,935	Public Space	0.8	3,948
SUPPORT/OTHER/PUBLIC	68,459	Public Space	0.8	54,767
MECHANICAL/ELECTRICAL	89,000	Mechanical Equipment and Shops	0.7	62,300
BEHAVIORAL HEALTH				
CLINICAL PROGRAMS				
ACUTE BEHAVIORAL HEALTH	23,072	Inpatient Unit	1.06	24,456
PARTIALIZATION / OUTPATIENT	3,584	Outpatient Department	0.99	3,548
ASSESSMENT STABILIZATION	2,800	Inpatient Unit	1.06	2,968
AMBULATORY/CANCER				
CLINICAL PROGRAMS				
CANCER INFUSION	6,300	Laboratories	1.15	7,245
RADIATION ONCOLOGY	13,520	Radiology	1.22	16,494
OTHER OP CLINIC	13,200	Outpatient Department	0.99	13,068
SUPPORT/OTHER/PUBLIC	14,204	Public Space	0.8	11,363
MECHANICAL	8,000	Mechanical Equipment and Shops	0.7	5,600
TOTAL	667,411		1.059286	706,979

Marshall Valuation Service Analysis A.L.S. HEALTHCARE CONSULTANT SERVICES PRINCE GEORGE'S REGIONAL MEDICAL CENTER Central Utility Plant

Actual Per Sq. Foot

\$9,646,917 \$241.17

	I. The Marshall and Swift	<u>Guideline</u>		M00 D "	
_	Tura		Hannital	M&S Page #	
a b	Type Construction Quality/Class		Hospital Good/A	Gen. Hospital or Conval. H	osp.
С	Stories		1		
d	Perimeter		622	for use in Perimt	tr Adi
u e	Average Floor to Floor Height		41.0	ioi use ili Periilii	u Auj.
f	Square Feet		40,000		
'	f.1	Average floor Area	40,000	for use in Perimt	tr Adi
	1.1	Average 11001 Area	+0,000	ioi use iii reiiiiii	ii Auj.
	A. Base Costs				
g		Basic Structure	\$336.71	Section 15-24 - 2	26
h		Elimination of HVAC cost for adjustment	0	Section 15-25	
I		HVAC Add-on for Mild Climate	0	Section 15-25	
j		HVAC Add-on for Extreme Climate	0	Section 15-25	
k	Total Base Cost		\$336.71	Section 15-25	
	Adjustment for Departmental				
	Differential Cost Factors		0.70		
	Adjusted Total Base Cost		\$235.70		
	D Additions				
	B. Additions	Flouritar (If not in base)	\$0.00	Section 15 26	
 m		Elevator (If not in base) Other	\$0.00 \$0.00	Section 15-36 Section 15-25	
m n	Subtotal	Other	\$0.00	3 ection 13-23	
0	Total		\$235.70		
	C. Multipliers				
р	Perimeter Multiplier		0.884786667	15-37 Inter	polate
q		Product	\$208.54		
-	Hoight Multiplion		1.69	15-37	
r	Height Multiplier	Product	\$352.59	15-57	
S		Fioduct	3332.33		
t	Multi-story Multiplier		1.000	15-25	
u	, ,	Product	\$352.59		
	D. Sprinklers				
V		Sprinkler Amount	\$3.14	15-36	
W	Subtotal		\$355.73		
	E. Update/Location Multiple	liers			
x	Update Multiplier		1.06	8/13 99-3	
У	·	Product	\$377.08		
				- /	
Z	Location Multipier	Dec doct	1.07	7/13 99-5	
aa		Product	\$403.47		
bb	Calculated Square Foot Co	ost Standard	\$403.47		
	II. The Project				
	A Page Coloulations		Actual	Dor Ca Foot	

A. Base Calculations

Building

Fixed Equipment		\$0.00
Site Preparation	\$895,307	\$22.38
Architectual Fees	\$649,819	\$16.25
Permits	\$202,166	\$5.05
Subtotal	\$11,394,210	\$284.86

B. Extraordinary Cost Adjustments

Project Costs

Premium for Paying Prevailing Wage	\$675,284 Building
Premium for Paying Prevailing Wage	\$62,671 Site

C. Adjusted Project Cost		Per Square Foo					
Building		\$8,971,633	\$224.29				
Fixed Equipment			\$0.00				
Site Preparation		\$832,635	\$20.82				
Architectual Fees		\$649,819	\$16.25				
Permits		\$202,166	\$5.05				
Subtotal		\$10,656,254	\$266.41				
Capitalized Construction Interest		\$2,832,290	\$70.81				
Total		\$14,226,500	\$355.66				
	MVS Benchmark	\$403.47					
	The Project	\$355.66					
	Difference	-\$47.81					
		-11.85%					



15

0.909249968

Tower - New Construction

	Per	imeter						
		1	1,600 1,613		1,800	1600	1612.8	1800
Area	50,000		0.928		0.938	0.928		0.938
	66,741					0.909249968 0.9	90980425	0.91791068
	75,000		0.9		0.908	0.9		0.908
Area Interpolation								
1	0.928	-	0.9	=	0.028			
2	66741.1	-	50000	=	16741.1			
3	75000	-	50000	=	25000			
4	16741.1	1	25000	=	0.669644			
5	0.028	*	0.669644	=	0.018750032			
6	0.928	-	0.018750032	=	0.909249968			
7	0.938	-	0.908	=	0.03			
8	0.03	*	0.669644	=	0.02008932			
9	0.938	-	0.02008932	=	0.91791068			
Perimeter Interpolation								
10	1800	-	1600	=	200			
11	1612.8	-	1600	=	12.8			
12	12.8	1	200	=	0.064			
13	0.91791068	-	0.909249968	=	0.008660712			
14	0.008660712	*	0.064	=	0.000554286			

	_	
N	е	W

0.000554286

Total Square Footage	667,411							
, ,		Cap Intere	est \$46,48	6,670 \$4,013,	330 \$50,500,000)		
C Level	124,860	Interest In	come \$13,89	9,974 \$1,200,0	026 \$15,100,000)		
1st Floor	172,803	Net Cap II	nterest \$32,58	6,695 \$2,813,3	305 \$35,400,000)		
2nd Floor	95,755							
3rd Floor	84,412		Capitalized Co	onstruction Interes	t and Financing Fee	Allocation		
4th Floor	31,586			New	Renovation	Total		
5th Floor	31,599	Building C	ost	\$220,335,3	396 \$0)		
6th Floor	31,599	Subtotal C	Cost (w/o Cap Interest)	\$247,045,7	783 \$0	\$247,045,783		
7th Floor	31,599	Subtotal/T	otal	100.	0.0%	6	Net Interest	Financing
8th Floor	31,599	Total Proje	ect Cap Interest [(Subtotal	Cost/1 \$39,135,8	885 \$0	\$39,135,885	\$32,586,69	\$6,549,190
9th Floor	31,599	Building/S	ubtotal	89.	.2% #DIV/0!			
Penthouse		Building C	ap Interest	\$34,904,	545 #DIV/0!			
Average	66741							
Perimeter								
C Level	2342	Loan Plac	ement Fees					
1st Floor	2,519		Hospital	Cup			\$4,013,33)
2nd Floor	2,683		\$6,54	9,190 \$550,8	810			
3rd Floor	2,477			New	Renovation	Total		
4th Floor	1017	Building C	ost	\$8,971,6	633 \$0)		
5th Floor	1018	Subtotal C	Cost (w/o Cap Interest)	\$10,656,2	254 \$0	\$10,656,254		

Hospital

CUP

0.909804254

6th Floor	1018]	Subtotal/Total	100.0%	0.0%				
7th Floor	1018		Total Project Cap Interest [(Subtotal Cost/	\$3,364,115	\$0	\$3,364,115	\$2,813,305	\$550,810	
8th Floor	1018		Building/Subtotal	84.2%	#DIV/0!				
9th Floor	1018		Building Cap Interest	\$2,832,290	#DIV/0!				
Penthouse									
Average	1613								
Wall Height (floor to				Wall Height					
eaves)		Height X sf		Interpolation	16	1.092			
C Level	18.00	2,247,480			17.05				
1st Floor	18.00	3,110,454			18	1.138			
2nd Floor	14.00	1,340,570							
3rd Floor	24.00	2,025,888							
4th Floor	14.00	442,204		1	1.092	-	1.138	=	-0.046
5th Floor	14.00	442,386		2	17	-	16	=	1.048754
6th Floor	14.00	442,386		3	18	-	16	=	2
7th Floor	14.00	442,386		4	1.048754066	1	2	=	0.524377
8th Floor	14.00	442,386		5	-0.046	*	0.524377033	=	-0.02412
9th Floor	14.00	442,386		6	1.092	-	-0.024121344	=	1.11612
Penthouse		1							
Average	17.05	11,378,526	17.04875407 Height						

M&S Method for	Internolating A	Area and	Perimeter Factor
INICO INICUIDA IOI	IIILEI DOIALIIIE 1	nica aliu	r etitiletet i actor

Penthouse

	Per	rimeter						
		200	250	250		200	250	250
Area	4000	0.975		1.007		0.975		1.007
	4288					0.967512	0.997784	0.997784
	5000	0.949		0.975		0.949		0.975
Area Interp	olation							
1	0.975 -		0.949 =		0.026			
2	4288 -		4000 =		288			
3	5000 -		4000 =		1000			
4	288 /		1000 =		0.288			
5	0.026 *		0.288 =		0.007488			
6	0.975 -		0.007488 =		0.967512			
7	1.007 -		0.975 =		0.032			
8	0.032 *		0.288 =		0.009216			
9	1.007 -		0.009216 =		0.997784			
Perimeter I	nterpolation							
10	250 -		200 =		50			
11	250 -		200 =		50			
12	50 /		50 =		1			
13	0.997784 -		0.967512 =		0.030272			
14	0.030272 *		1 =		0.030272			
15	0.967512 +		0.030272 =		0.997784			

Ne	w	8576	17152	34304	68608			
		500	1000	2000	4000			
Total Squai	4288		W	all Height Ir	nterpolation			
Penthouse	4288				20	1.184		
Average	4288				20	1.184		
Perimeter					20	1.184	62.5	3906.25
Penthouse	250							
Average	250							
Wall Height (fl	oor to e V	Vall Height Ir	nterpolat	1	1.184 -	1.184 =		0
Penthouse	20	85760		2	20 -	20 =		0
Average	20	85760	20	3	20 -	20 =		0
				4	0 /	0 =		#DIV/0!
				5	0 *	#DIV/0! =		#DIV/0!
				6	1.184 -	#DIV/0! =		1.184

	Pe	rimeter										
		600	622	700		600	622	700				
Area	35000	0.89		0.897		0.89		0.897				
	40000					0.882	0.884787	0.894667				
	50000	0.866		0.89		0.866		0.89				
Area Interp	oolation											
1	0.89 -		0.866 =		0.024							
2	40000 -		35000 =		5000							
3	50000 -		35000 =		15000							
4	5000 /		15000 =		0.333333							
5	0.024 *		0.333333 =		0.008							
6	0.89 -		0.008 =		0.882		Sprinkler In	terpolation				
7	0.897 -		0.89 =		0.007			30000	3.28			
8	0.007 *		0.333333 =		0.002333			40000	3.14			
9	0.897 -		0.002333 =		0.894667			50000	3		0	0
Perimeter	Interpolation											
10	700 -		600 =		100		1	3.28	_	3 =		0.28
11	622 -		600 =		22		2	40000	_	30000 =		10000
12	22 /		100 =		0.22		3	50000	_	30000 =		20000
13	0.894667 -		0.882 =		0.012667		4	10000	/	20000 =		0.5
14	0.012667 *		0.22 =		0.002787		5	0.28	*	0.5 =		0.14
15	0.882 +		0.002787 =		0.884787		6	3.28	-	0.14 =		3.14

N	New		160000	320000	640000				
		1244	2488	4976	9952				
Total Squa	40000		V	Wall Height	Interpolatio	on			
1	40000				32	1.459			
Average	40000				41	1.69075			
Perimeter					36	1.562		155.5	24180.25
1	622								
Average	622								
Wall Height (floor to e V	Vall Height	Interpolat	1	1.459 -		1.562 =		-0.103
Penthouse	41			2	41 -		32 =		9
Average	41		0	3	36 -		32 =		4
				4	9 /	'	4 =		2.25
				5	-0.103 *	•	2.25 =		-0.23175
				6	1.459 -		-0.23175 =		1.69075