

PROTOTYPICAL HOTEL DESIGN SITE ADAPTATION AND PRELIMINARY COSTING

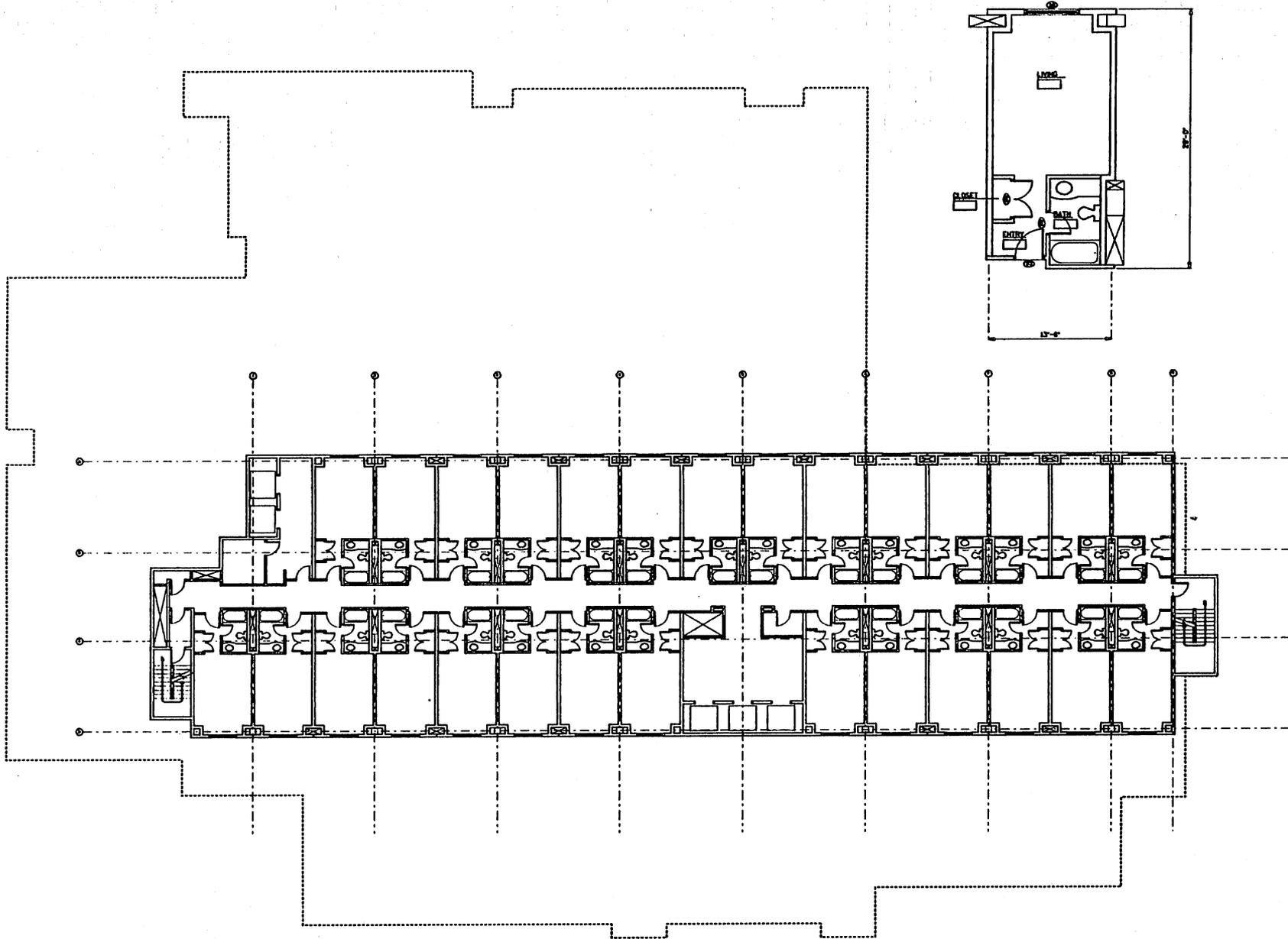
Problem Description :

Develop a computer building model that could be manipulated on a site plan based on site analysis and changing program requirements and document solution. Then perform a preliminary building cost estimate based on square footage and functional use.

Project Work :

The process begins with the digitizing of a site and performing site analysis. The prototype plan can be placed on the site, moved, rotated and rooms rearranged and enlarged to meet program requirements. The mass model of the building can be quickly constructed for a visual critique. As the rooms are modified their perimeters redrawn the room/building square footages are recalculated and the non-graphic database updated. A report can be generated from the database containing individual room names, number, square footage and functional use category.

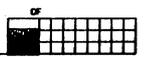
The report can be imported into a spreadsheet to perform a costing analysis. The spreadsheet can be used to sort and total the square footage of spaces by functional use, then a cost per square foot applied. This permits the costing values to be easily changed to reflect local construction costs and/or quality of construction. The format of a spreadsheet makes it easy to give the data to other consultants and the client for their use.



TYPICAL GUEST FLOOR PLAN

 SHEET TITLE

SHEET NUMBER



PROJECT NUMBER : 0001
 JANUARY 20, 1987
 PROGRAM REVIEW - PROTOTYPE (2)

Preliminary costing work sheet.

CLASS	\$/SQ.FT.	#	SQ.FT.	% BLDG	\$	% BLDG
PUB =	50.00	10	3,420.21	9.26%	171,010.50	9.26%
FRD =	50.00	8	938.51	2.54%	46,925.50	2.54%
FBA =	50.00	3	5,577.37	15.10%	278,868.50	15.10%
FNA =	50.00	10	8,520.63	23.07%	426,031.50	23.07%
GAR =	50.00	1	2,277.10	6.17%	113,855.00	6.17%
EXO =	50.00	5	410.11	1.11%	20,505.50	1.11%
GNO =	50.00	4	374.86	1.02%	18,743.00	1.02%
ACC =	50.00	2	380.30	1.03%	19,015.00	1.03%
FSA =	50.00	1	2,806.99	7.60%	140,349.50	7.60%
HKL =	50.00	1	1,231.90	3.34%	61,595.00	3.34%
MTN =	50.00	1	772.71	2.09%	38,635.50	2.09%
EMF =	50.00	3	1,847.77	5.00%	92,388.50	5.00%
MEP =	50.00	3	2,048.03	5.55%	102,401.50	5.55%
RCP =	50.00	9	1,042.75	2.82%	52,137.50	2.82%
CIR =	50.00	7	5,276.80	14.29%	263,840.00	14.29%
TOTAL ->		68	36,926.04	100.00%	1,846,302.00	100.00%
AVG ---->			50.00			

computations

FLOOR	NUMBER	CLASS	ROOM	NAME	AREA SQF
1	ZZ.6	CIR	068	STAIR 2	81.31
		CIR	067	STAIR 1	143.29
		CIR	066	CIR	138.12
		CIR	065	CIR	97.74
		CIR	064	CIRCULATION	2,881.54
		CIR	063	CIRCULATION	795.18
		CIR	062	CIRCULATION	1,139.62
		RCP	061	TRASH	79.95
		RCP	060	STOR	155.50
		RCP	059	REC	86.08
		RCP	058	STOR	88.17
		RCP	057	ASST PER	144.97
		RCP	056	PER	158.40
		RCP	055	PURCH	78.35
		RCP	054	SEC	105.87
		RCP	053	WAIT	145.46
		MEP	052	ELEVATOR SHAFT	94.87
		MEP	051	ELEVATOR SHAFT	153.46
		MEP	050	MECH/ELEC	1,799.70

database

