EPsn 322

AL JAMI

AMERICAN UNIVERSITY OF BEIRUT
FACULTY OF ENGINEERING & ARCHITECTURE
DEPARTMENT OF ARCHITECTURE, COURSE A130
FINAL PROJECT PROGRAM & REFERENCES

AMER AL MALKI

Babbe of content....

0	CONTENT	0 0 0	01
2.	INTRODUCTION		
	LOBJECTIVES	0 0 0	04
	-Scope of project	0 0 0	06
	-PURPOSE	0 0 0	08
	-SALIENT FACTORS	• 0 0	08
	-"Souk"		10
	-HISTORKAL AND CONTEMPORARY		
	EXAMPLE3	0 0 0	12
3.	SPACE REQUIRENEENTS		
	-Prografy	0 6 6	29
	-DESCRIPTION	0 0 0	30
	- SPACE ANALYISIS AND		35
	STANDARD		
	_3PACE SUMMIMARY	0 0 0	52

Go SITE

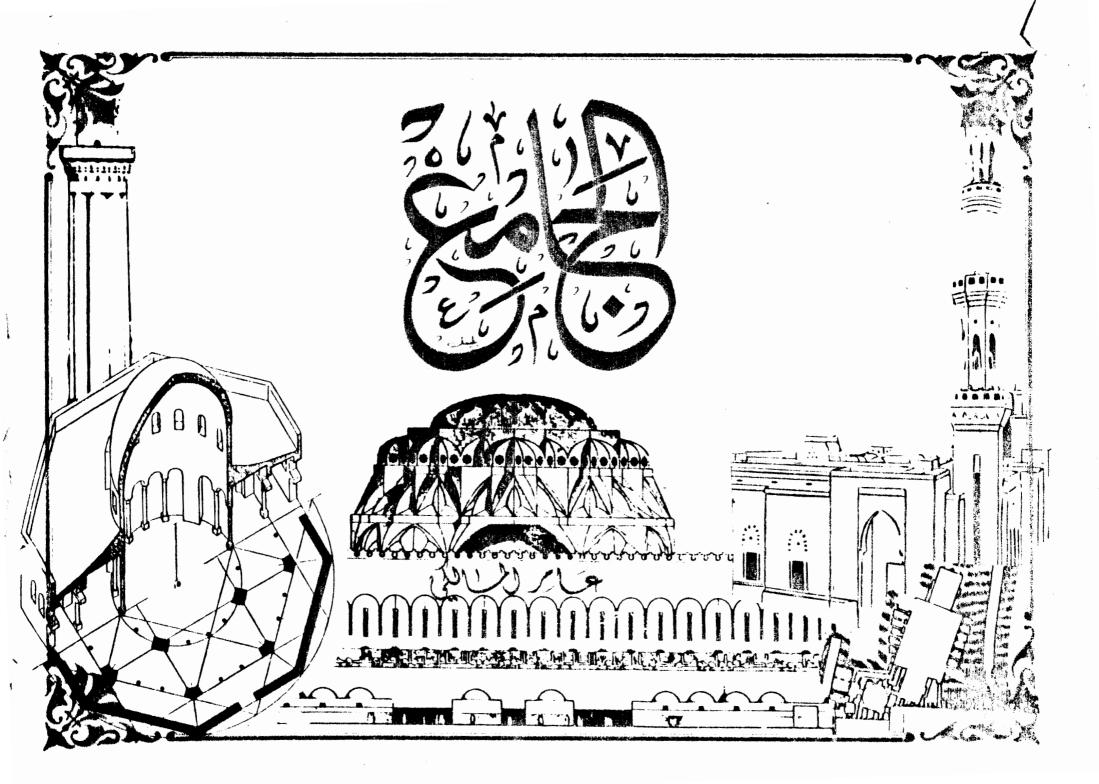
	-Location	0 0 0	18
	_socio_glonomical environment	0 0 0	18
	AND DEVELOPMENT TENDENCIES		
	LARCHITECTURAL CHARACTER AND HIST	ORY	18
	OF THE SITE		
	-CLIMATE AND WIND	0 0 •	20
	_PHOTOGRAPHS	0 • •	21
	-TRAFFIC PATTERN		22
	- LANDUSC	9 0 0	23
	_ Legal Factors	9 0 0	24
	-SUMMARY OF SITE ANALYISIS	• • •	25
5.	CONCEPTS		
	_DESIGN	0 0 0	53
	_PLANNING	• • •	54
	-technological	0 0 0	5 9

6. REFERENCES

... 60

000

introduction...



INTRODUCTION:

o <u>Objectives:</u>

Modernization and Islam

Most Muslims share the belief that Islam is not just a religion; it is an entire way of life that includes codes of behavior and a legal system. It governs, and disciplines daily behavior. It dictates the acquisition of material wealth, marriage contracts, inheritance laws, zoning and land tenure, community rights versus private rights, ownership, and so on. We care about Islam, and we want it to continue. We do not want to experience the kind of break that occured between fourteenth—century Europe, and twentieth—century Europe, which can not occur as long as proper respect and treatment is given to the rules of Islam which governs the community. This does not limit the use of imagination and technology.

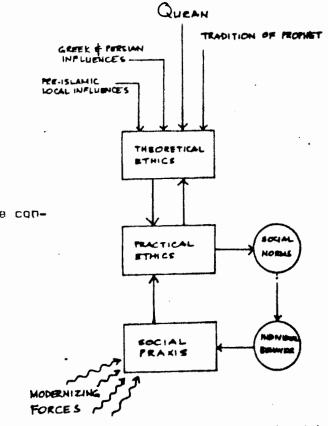
Role of Education

The function educational system

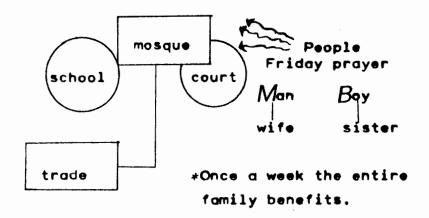
The religious institutions paralleling the formal school system capped by the colleges of dawa, which produces people trained to enunciate a way of life and a form for teligion, and to affect the behavior of people. The result is a dual system, whose two parts are different in their basic structure.

In theory there is a linkage between the two systems whereby a graduate from one can cross over to the other and vice versa. In practice, however, it never happens, and the two systems are separate. If we look at what each one of them deals with, we will find a dichotomy between the traditional religious school system and the modern formal one.

This dichotomy in the system means that education has not been able to fulfill its lofty goals of providing simultaneously practical skills, social homogenization, and a basis for cultural identity in a proper fashion, and that failure has led to efforts in Muslim countries to redefine the purposes and types of education they offer.



Three-tiered model showing relation between theoretical and practical ethics



*Existing situation

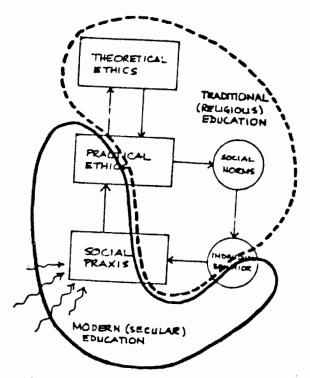
The first educational institutions in Islam that we know of were, of course, mosques. Any large congregational mosque performed that function, as it still does today in may places. Modernization has a folling date: in many places the basic educational function of teaching children to read and write is still carried on in mosques. The secondary educational function, transfering certain kinds of information, such as Islamic law also went on and still goes on in mosques.

Mosques as places for education have a very powerful tradition. The most famous of all such mosques is the mosque of al-Azhar in Cairo, which began its function as a mosque academy in the tenth century. Subsequently so many different accretions were built onto it that one can no longer even call it a single building. It is a complex of covered spaces and open spaces functioning as one large educational center. In subsequent centuries and up to the present day, al-Azhar has remained a functioning, albeit changing, institution. As other buildings were added to it, it assumed something of the aspect of a contemporary university.

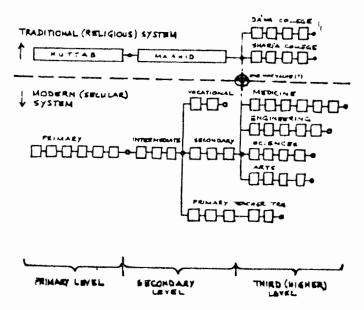
Every congregational mosque was a community center and as such took upon itself the very important role of providing a place for learning and transmitting the very basis of Islam: the study of laws, the study of the Koran, and so forth. This is something that one ought to remember when one thinks about how mosques functioned and why they functioned that way.

The mosque, can house all kinds of activities, one of those activities was always tutorial. When we talk here about transmission of information, we are still talking about a system of close, small groups gathering in spaces which could be multifunctional.

There are, however, other buildings that can be closely identified with educational activities but were not based on the hypostyle form. They existed perhaps by the end of the eleventh, certainly by the beginning of the twelfth. This is the form that housed the madrasa, or law school, which trained lawyers and others in Islamic law. A particular institution came into being to support, house, and feed teachers and students. It was essentially the beginning of the residential college as we know it today.



Dichotomy between the traditional school system and the modern formal one



Part of the teaching system was "formalized Informality". The professor of law in each particular madraga, or in several, got his diploma to teach from another professor-it was a one-to-one relationship. A collegium did not mather together to give license to teach. Although it was a wast cosmopolitan world, the process of licensing, finding a place to teach, and being supported in it were all governed through personal relationships.

The choices made for assigning a place for the mosque, the teaching area, and the housing zone were based on a very different understanding of what a courtyard is and how it functions.

At some point in the fourteenth century, it was no longer enough to have informal, or let us say"Physicallt unbound", educational activities, particularly legal instruction, housed in a large mosque. By then there was a correct way to house them, and that was to build a madrasa, a separate building. There are any number of these mosque-madrasa combinations in Iran coming down to us in the archaeological record from the fourteenth century onward, but almost none from much earlier. It was at that point that madrasas became part of complexes.

* Scope of the project

"What is the nature of problem that is to take place there?"

Size, Density, Dispertion, Compactness, Location of Different elements, nature of students life, stand-teacher (Interaction) surrounding community.

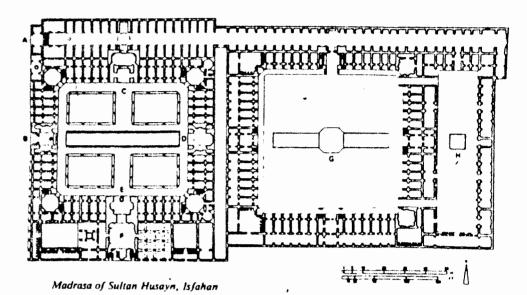
interaction : "Essence of Islam is in the Interaction"

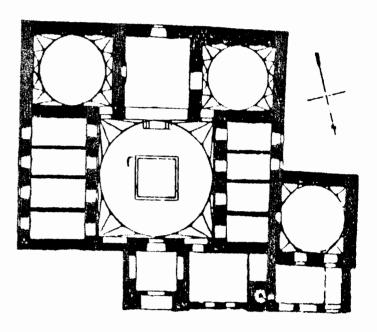
Community : "To capture the spirit of Islam"

"Choice of appropriate technology"

"Respect of unvironment".

Educational and Multifunctional Buildings HISTORICAL EXAMPLES





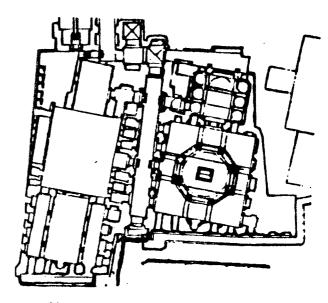
Ince Mikure Mudrasu, Konyu, Turkes, c. 1260-65

LIMITS

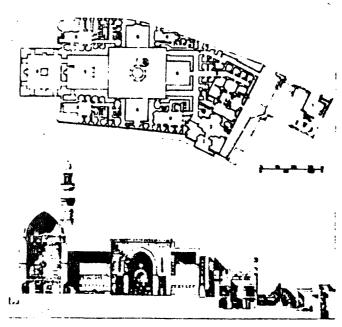
- 1. The inefficiency of the existing road network and the absence of parking spaces.
- 2. A loss of character due to unplanned building in concrete in an area built formerly in stone.
- 3. The lack of organization. Until now it has remained a purely residential zone. With the addition of public facilities and the integration of more cultural activities, the mosque and Souk has a potential to become a folklore attracting both clients and visitors.
- 4. The scheme should presume the shopping habits and social network of the population.

The plan is constituted of the following:

- 1. An organized vehicular and pedestrian circulation network.
- A large congregational mosque as a center of activity
- A provision for the apecialized shoping areas that cater for crafts.
- 4. Some missing functions would be integrated to enliven the mosque and souk:
 - Administration
 - Madrasa
 - Clinic-
 - Exhibition Halls(M.P.H.)
 - Library
 - Cafeteria
- 5. A flow circulation and servicing facilities for the market



Madrasa und muusuleum of Qula'un, Cairo, 1284-85



Mudrasa of Sultan Hasan, Cuiro, 1356-59 (after Rogers)

* PURPOSE:

Architecturally, socially, and economically.
... The purpose behind this project is to be able to translate the architectual vocabulary of a mosque-madrasa into the present date with a contemporary image and expression of the functional analysis, distribution, and interrelationships among each other as well as with the community character and surrounding.

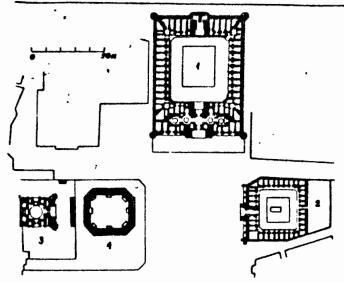
It has to respond to the social needs of the environment whether educational, medical, financial or leisure not to mention the organizational pattern from and to the community.

... The projects lavish is weightring on the scale of the economical response of "who will sponser such a project"? The government, an individual, or a group of individuals Its intricacy of mass and complexity is an element of how far is it, he, or they are willing to forsee.

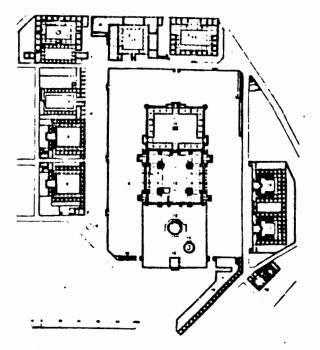
* Salient Factors

How does one catch the essence of Islam when it is appropriate to do so? I't is not just a set of physical attributes or an architectural vocabulary which any designer can learn and should use. The spirit of Islam is a process, and it changes. Its components are both physical and nonphysical.

Its nonphysical dimensions are three:(1) The law and the institutions of power that govern any set of activities, including zoning laws, land-tenure laws, and subdivision regulations, and the way in which decisions are reached through the legal system.(2) The socio-economic institutions that govern the way activities exist and operate in Muslim societies. Finally (3) thought, or fikr, which draws upon religion, arts, and the sciences. This fikr, this thought, is defined by the elite, who are also the people who make the decisions in building projects. It is circumscribed by the nature of the perception that they have of themselves, and the perception that they have of the buildings they would like to see built.

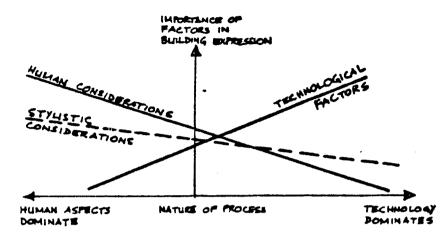


Lab-i Hauz Square, Bukhara, 17th c. tafter Architectural Monuments of Middle Asia)

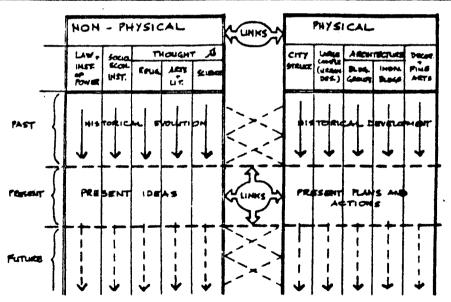


Süleymaniye, İstanbul, 1550-57 (after Goodwin)

On the physical side, we have the structure itself, the organic dimensions that exist within the streets. from the urban structure and urban design of large complexes to the architecture of individual buildings, to decoration and fine arts. Each of these has its own tradition and heritage, The nonphysical heritage is as important as the physical heritage not only in understanding the physical heritage and interpreting it in a meaningful fashion but also in understanding the concept of cultural continuity that exists in a society which refuses to reject its Islamic identity. If this comes from the past it has lines of development that can be tracked and historians do spend a lot of time tracking the development of each of these streams through time to the present and even extrapolating into the future. But the key job of capturing the spirit of Islamic society in a building lies in being able to link the two types of activities.

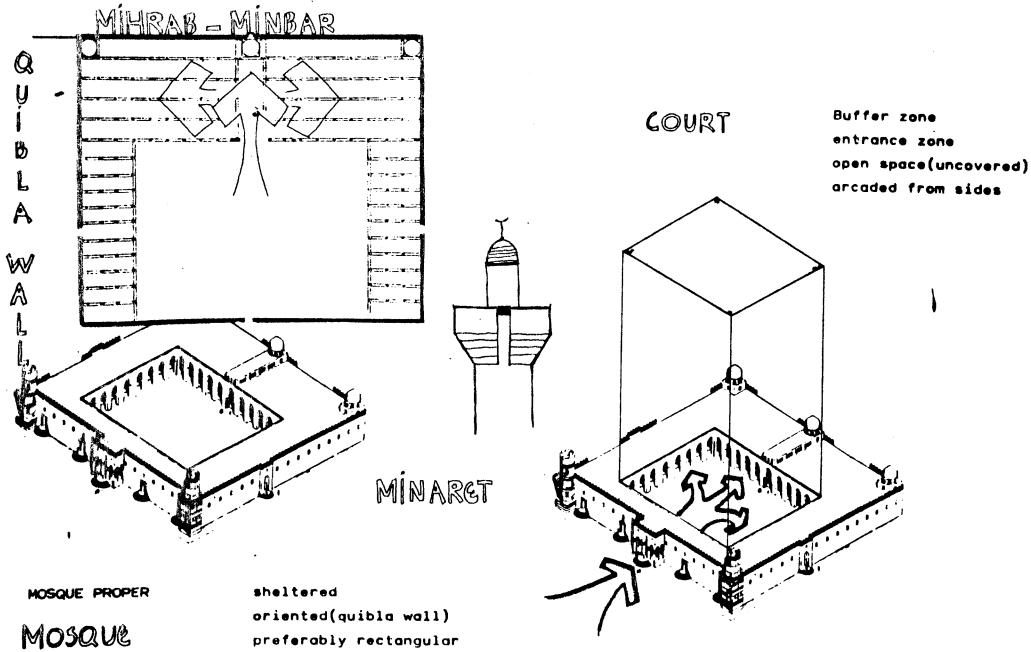


Degree to which human or technical factors control the nature of the design

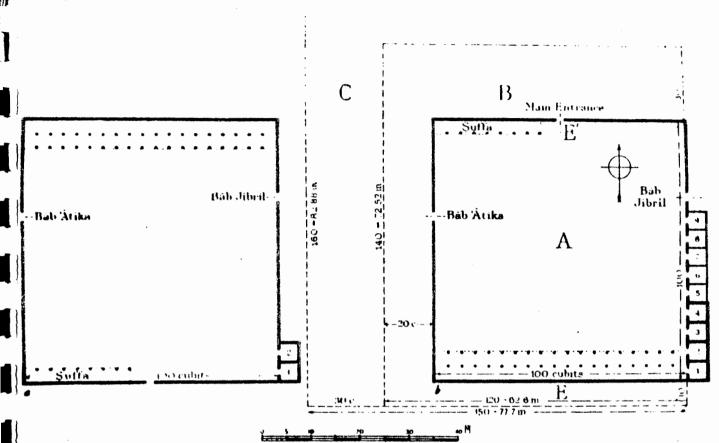


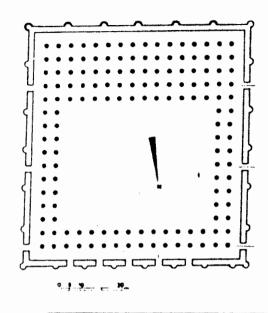
Physical and non-physical components of design

MOSQUE HISTORICAL DEVELOPEMENT



preferably rectangular with the quibla wallas the longer side.





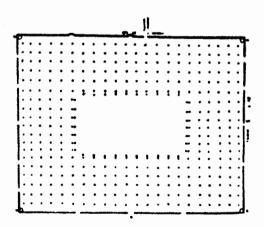
Kufa, Great Mosque as rebuilt by Ziyadh ibn Abihi in 670

لوحة ٢ ــ منزل الرسول والمسجد ــ المسقط (CRESWELL)

the first militals in all Islam had been introled into al-Walid's rebuilding of the mosque at Medina in 706,

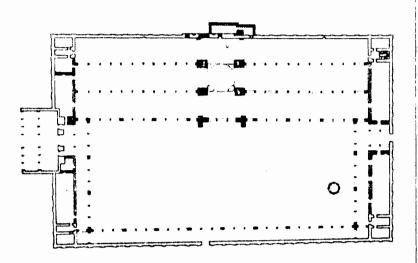
Ummayad, 661-749

The Great Mosque and Dar al-Imara at Kufa
Soon after his appointment to Basra, Ziyadh was made Governor of
Kufa as well. There in 670 he rebuilt the congregational mosque on
stone columns 51 feet tall and supporting a flat roof of teak
The prayer hall had five rows of columns and, probably for the first
time, the other three walls were provided with porticoes or riwags



لوحة ٣ ــ جامع عمرو بن العاصـــالمـقط (BRANDENBURG Credit CORBETT) ١٩٢٩ / ه ٧٢٠ م

Damascus, Great Mosque, plan in the time of al-Walid

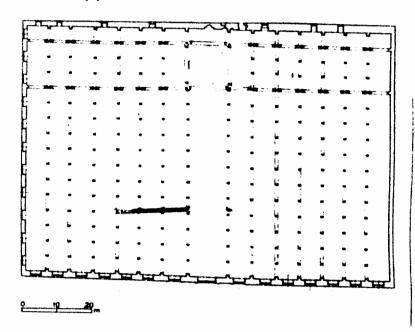


Long walls to east and west negated the inner projection of the towers. The sahn was then surrounded on all four sides by a two-story areade not corresponding to any inner horizontal division. The lower areade alternated two columns and a pier like the atrium of Hagia Sophia and perhaps of Constantinopolitan palaces as well.

The prayer hall was divided into three broad aisles with gabled roofs parallel to the south wall of the old temenos, the qibla. This arrangement may well have evolved from the frequent habit of converting Syrian basilicas to mosques: because Mecca was due south, the Muslim had only to pray across the aisles of a structure that normally pointed east. The theory, however, that the present prayer hall is actually the old church of St. John has long been discarded.



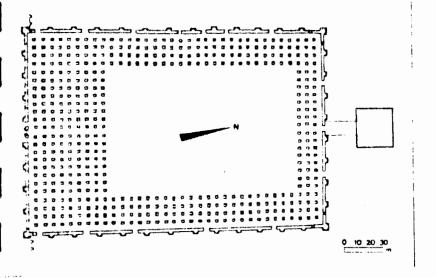
Jerusalem, Mosque of al-Aqsa as completed by al-Mahdi c. 780, reconstruction of plan



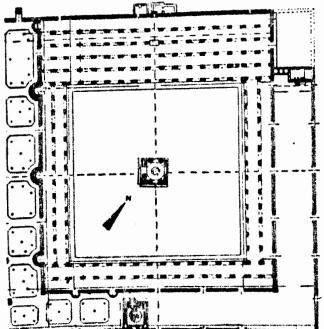
this is the earliest to deploy its areades at right angles rather than paral-

lel to the qibla wall. The intent must have been to orient the mibrab aisle upon the south entrance of the Dome of the Rock, as is that of the present mosque. Al-Walld thus reinforced the sanctity of the site by equating the mosque not only with Constantine's basilica (which had a similar relation to the Anastasis) but with the Church of the Nativity at Bethlehem, which has the same orientation toward Christ's birthplace.

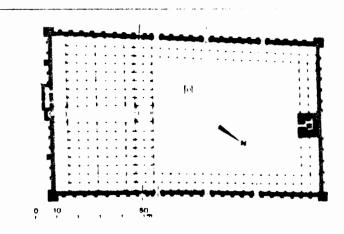
Samarra, Great Mosque of al-Mutawakkil, 848/49-852, plan



Tulunids, 868-904



Mosque of Ibn Tulun, 876/77-879, plan



According to recent studies by the late Alexandre Lézine, Zivadat Allah's new mosque, finished in 836, consisted of a prayer hall about 236 feet wide, with sixteen aisles of seven bays each flanking a much wider mihrab aisle leading to a dome over the mihrab. The support for the latter here generated the typical T-shaped plan of so many later North African mosques and goes back, if not to al-Walid's mosque at Medina, certainly to al-Mahdi's al-Aqsa of 780. It is most unlikely that there were riwags. Of the two doors that are today blocked off, that to the west by Zivadat must have led directly into the now much larger salin, whose northwest boundary is marked by Zivadat's minaret · The latter is built off axis, perhaps as a miscalculation (the whole plan is irregular), but also perhaps deliberately to leave room for a portal on the militab axis. Since the entire northeast wall was rebuilt after 1300, only excavation would provide the answer.

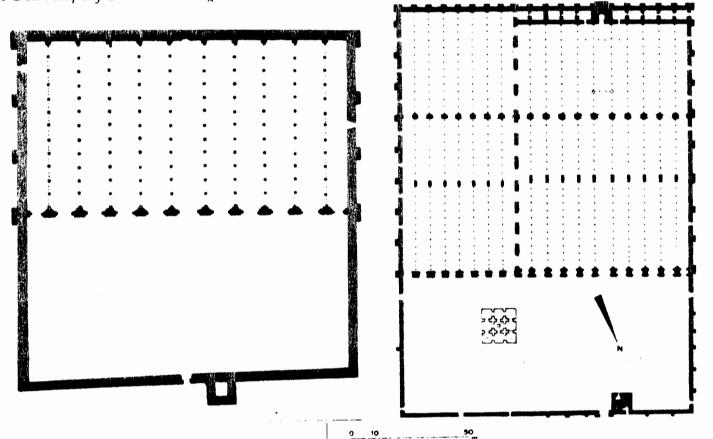
Ibn Tulun's structure recalls the earlier Iraqi tradition of Kufa and Wasit, although without the semicircular buttresses found there and in Samarra. The salm is about 990 square feet and, although the walls of the mosque proper form a rectangle about 400 by 459 feet

the fact that the mihrab functions as

an indicator of the direction of Mecca cannot be the only reason for its existence. At Medina the first militah (the word had royal connotations in pre-Islamic Arabic) marked the site from which the Prophet had led his people in prayer. Here at Cordoba the niche has become an octagonal chamber perhaps suggesting that through the arch divine grace comes to the faithful. At any rate, nearly all later Spanish and North African mihrahs assume this form.

Ummayad Spain, 710-961

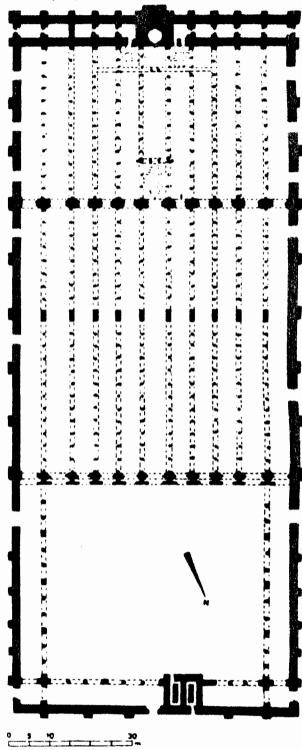
The Great Mosque of Cordoba: First Stages

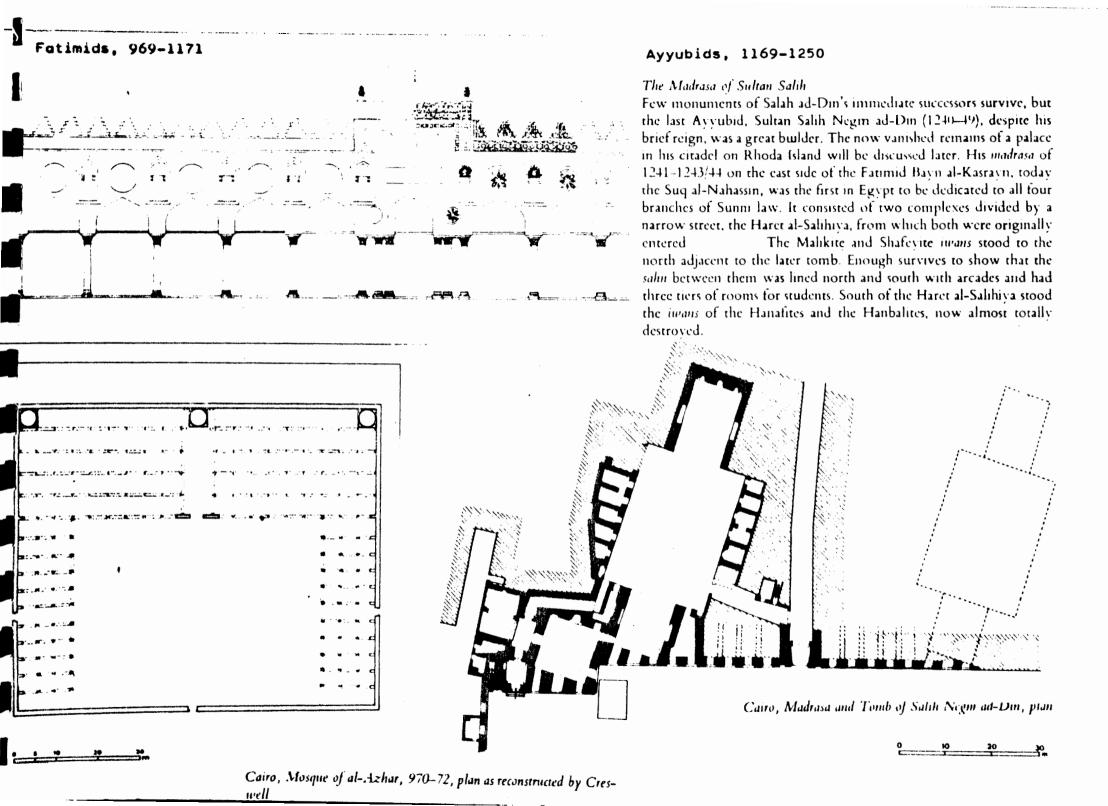


Abd er-Rahman's stone-walled Friday mosque of 786/87 took only a year to build. It had a prayer hall with eleven aisles of twelve bays each, perpendicular to the qibla wall—in the manner of al-Mahdi's mosque in Jerusalem and probably of its Umayyad predecessor, but without a dome over the mihrah. The sahn had no riwaqs and communicated with the prayer hall through doors set between heavy T-shaped piers to counter the thrusts of the unique double arcades of horseshoe arches below and round ones above

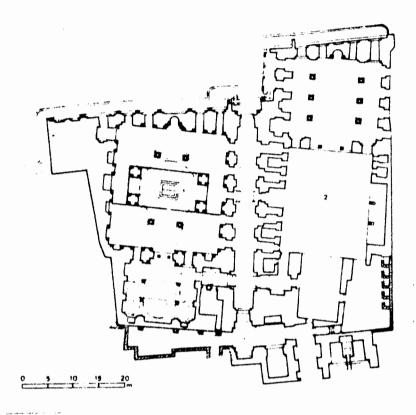
Cordoba, Great Mosque as enlarged in 987, plan

The Great Mosque of Cordoba: Later Stages



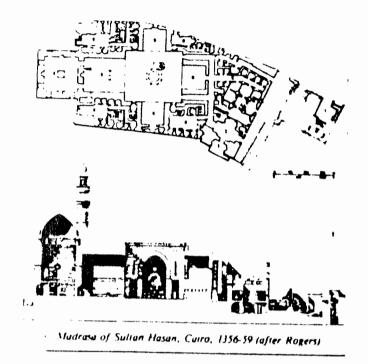


Mamluke, 1250-1560



Cairo, Tomb (1) and Madrasa (2) of Sultan Qala'un, 1283–85, plan

Islamic architecture acquired in the early twelfth century if not in the later eleventh that total integration of inscriptions and decoration which remained in the future one of its most important stylistic lements. Far too few studies have yet been made of the content of the inscriptions in relation to the parts of the building to which they were applied. One such study of the inscriptions of Sultan Hasan's madrasa has recently been made by Erica Cruikshank Dodd. In the great portal Surah XXIV, verses 36 and 37, of the Koran is quoted, equating the niche itself with a militab lighted by a lamp which is the Word of God. This quotation often appears in a militab proper or is symbolized, as on the facade of the Mosque of al-Aqmar of 1125, by the image of a lamp. It is probably not the first time that the mingarnas ornament is itself associated with light. The militab quotes verse 139 from Surah II, which refers to the Light of Heaven and not to that in the militab alone. Miss Dodd suggests that the portal's ref-



erence to the light of the mihrab prepared the believer for the mihrab inscription, which describes the mosque as the mihrab of the world. -

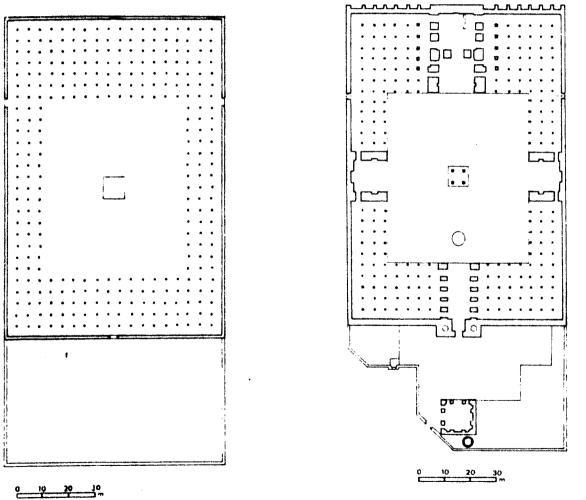
The intricate plan provides a separate and distinct madrasa complex for the four rites. Each, entered individually from the salin, has its own modest court and vaulted iwan. This may explain the planned four minarets, unique for an Egyptian building. These complexes cluster around the four immense iwans opening from the salin. Accessible mainly from the salin, the east and west iwans were much smaller than the other two. Given the widespread use of the four-mean plan for all types of buildings in Islam, the considerable literature on its application to madrasas seems superfluous. Since the plan existed long before the madrasa—let alone the four-rite madrasa—was invented, it would seem inevitable that the two should be combined occasionally.

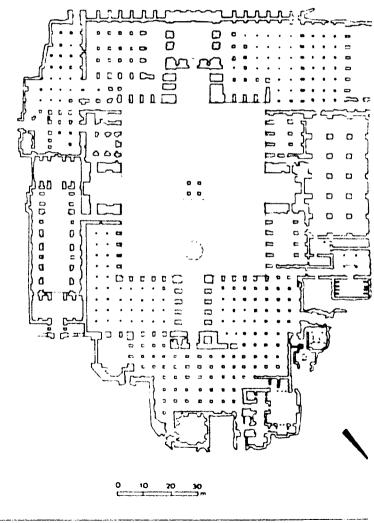
Masjid-i-Jami, plan of the Abbasid mosque, north and tenth

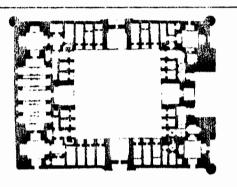
The next additions to the original mosque, probably made in the early twelfth century were the four iwans and the north portal flanked by paired minarets, producing, perhaps for the first time, the typical Persian four-iwan mosque of which the earliest dated example now known is that of Zaware of 1135-36.

Isfahan, Masjid-i-Jami, plan of the Seljuk mosque, twelfth century

Isfahan, Masjid-1-Jami, plan of the present-day mosque





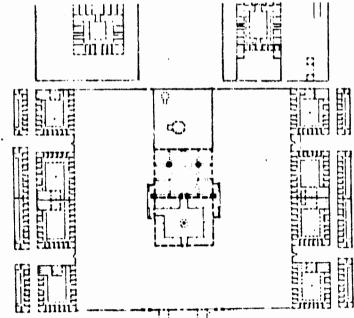


Istanbul, Kulliye of Sulcyman, 1550-57, plan

Samarkand, Madrasa of Ulugh Beg, 1417-20, plan

The plan though now showing some variation in detail, was once probably totally symmetrical. An immense iwan in a facade flanked by two of four intended corner minarets gives access to a cruciform court 355 feet square surrounded by two tiers of students' cells. In its corners passages lead to four cruciform domed chambers, which may have been intended for tombs. The axial iwan leads to a transverse cross-vaulted mosque, which also has access to the corner chambers.

Ottoman Turks, 1300-1924



As in the Fatih Cami, the prayer hall of the mosque stands between a tomb enclosure to the south and a sahn to the north. Unlike it, however, this central unit is separated from the surrounding madrasas and other charitable foundations by a windowed wall

Istanbul, Fatih Cami, 1463-70, plan

The vast, rigidly symmetrical outer court—with multidomed madrasas, dervish hostels, and other charitable foundations—is imperial in scale and Roman in the immensity of the vaulted founda-

The souk

THE SOUK

Being Located in a highly commercial zone, the Souk will constitute the major part of my project. It will constitute a lively conglomeration of specialized and mixed shopping areas offering veriety. Its character should integrate harmonuously with its surrounding and help preserve the clienteles shopping habits.

This souk requires a high degree of cleanliness due to exposure, therefore it is more convenient to treat it as a separate entity.

Total Nos: of trade shops = 50 shops.

Average area of each

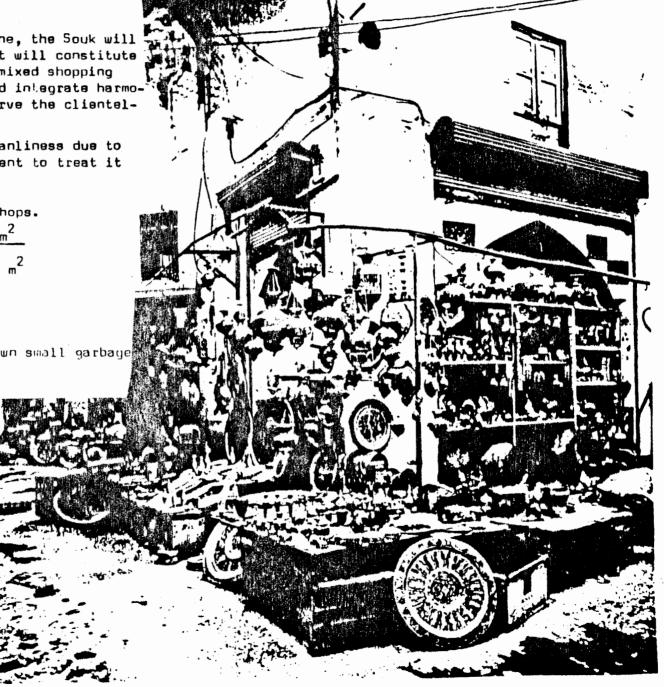
17 m²

 $Total = 1000 \text{ m}^2$

Clearliness Conditions: each shop has its own small garbage basket which is accessible to monicipality.

A Bazar in Tran

A lively atmosphere is exected by the use of every available space to display merchandise. This style of display gives the scuk a rich appearance and increases sales potential as well as marks the speciality of the scuk.



This souk's purpose is to help reviving the dying Islamic and traditional crafts. It consists of 50 shops of 17 m2 floor area. Visually accessible to clients to expose the actual production process. The Souk's location in the down town, attracts clients and offers the necessary marketing. Distribution of crafts is =

				t rade	work
-	pottery	=	8 ahopa	4	4
-	nawl		6 shops	5	3
-	meta]	#	7 shops	6	1
-	BOOKS	=	6 shops	6	_
-	wood	=	8 shops	7	1
-	glass	. =	9 shopa	9	_

This Souk is run by an administration who's function are #

- 1- Make sure that shope are rented to artisans only.
- 2- Supply raw material.
- 3- Help marketing the products.
- 4- Invite foreign artisans to exhibit in exhibition hall and outside exhibition spaces included in souk.

The administration may see it fit to chan 3 the above ratio of crate. Thus the administration controls the raw material.

Storage rooms distributed along the souk. These are:

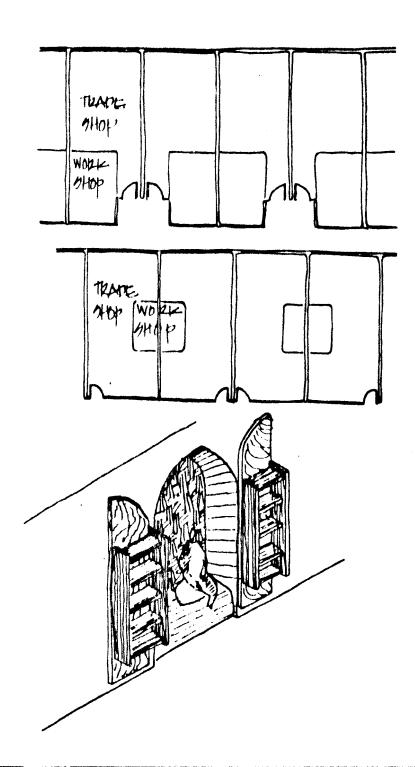
Wood storage

Metal storage

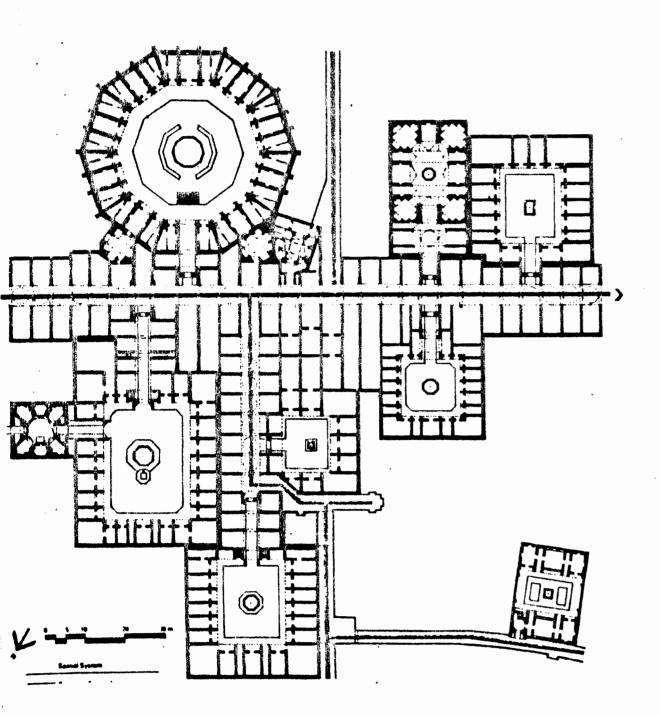
Glass storage

Pottery storage

Nawl storace



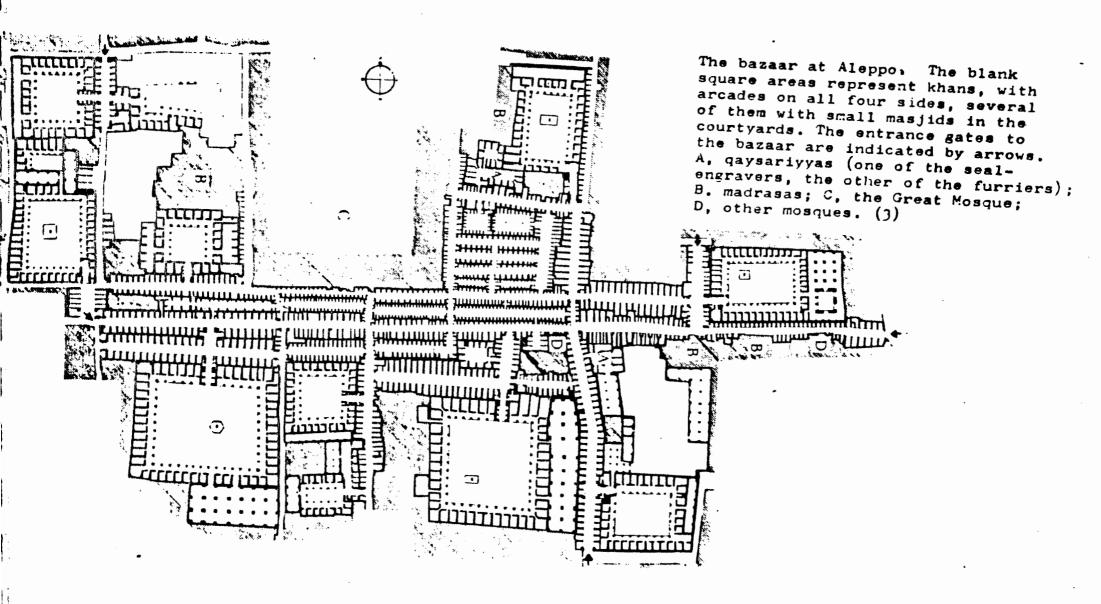
HISTORICAL AND CONTEMPORARY EXAMPLES

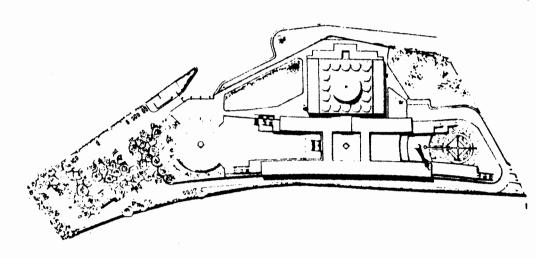


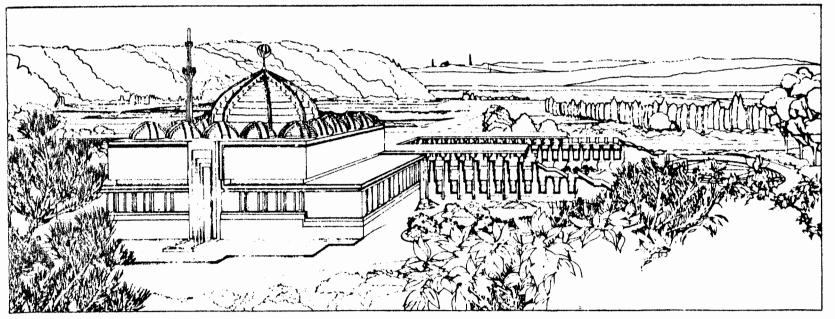
The system of positive space continuity creates a hierarchy of movement systems, linkages, and spatial relations that allows for growth and change within a superconscious sense of order. A segment of the bazaar plan of the city of Kashan is shown.

Primary Bazaar Route

Secondary Bazaar Route







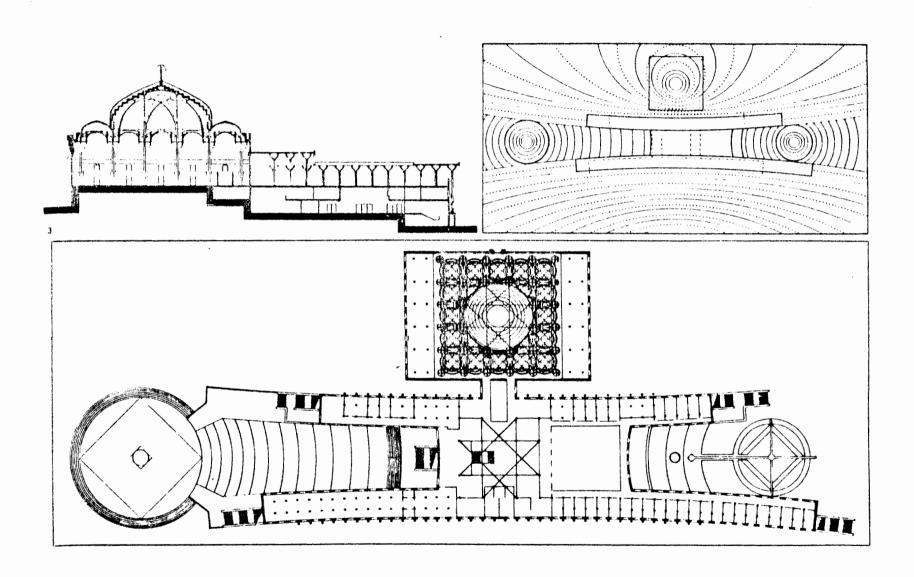


ISLAMIC CULTURAL CENTER

ROME

"The fact that the muslim religion doesn't conceive the mosque as a temple, but as a hall of prayer (having other functions). The fact that it is a in the fact that it is a f

The whole is made of two distinctive parts (but indivisible): The hall of prayer and the avenue of arcades. The relation between the avenue (constitute; the access) and the principal entry is a circular piazza that the visitor uses to arrive to different places. The curvilinear buildings all along the road constitute the transition between the mosque, the city and the natural environment. The prayer hall has a square shape directly related to the court. Its roof is held up by columns dividing the space in cells. In the center of the structure a wide cupola would encircle the space.



7 5



COMPITITION (BAGDAD)

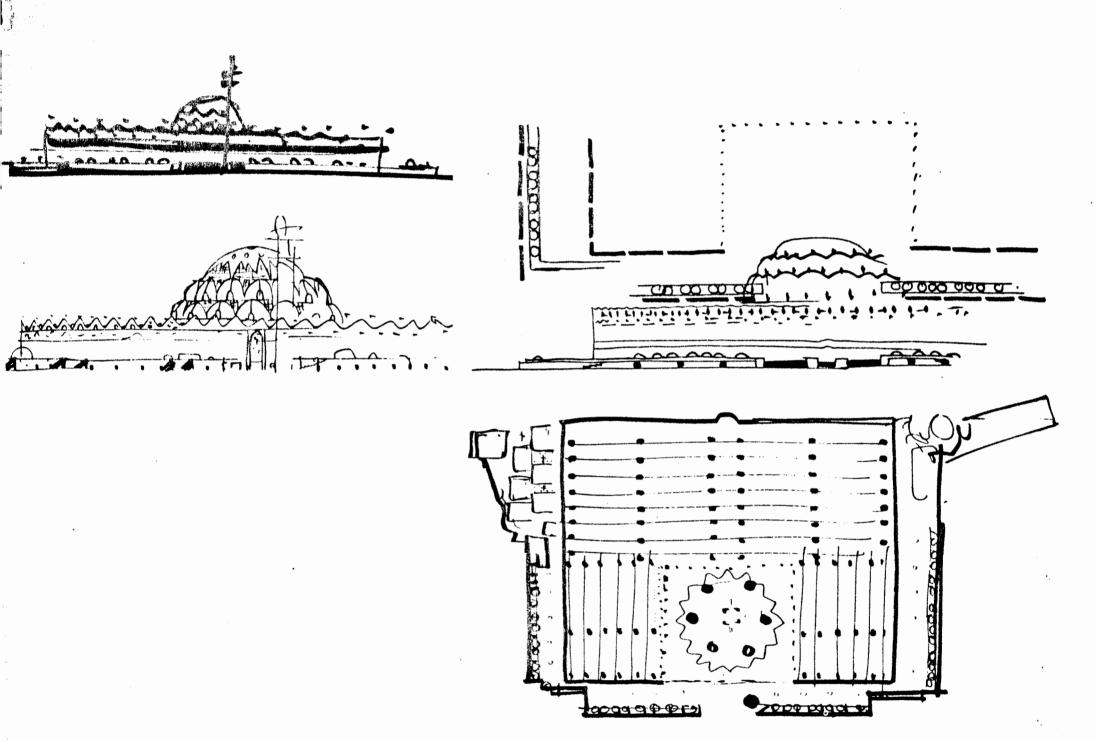
Shat adjantings.

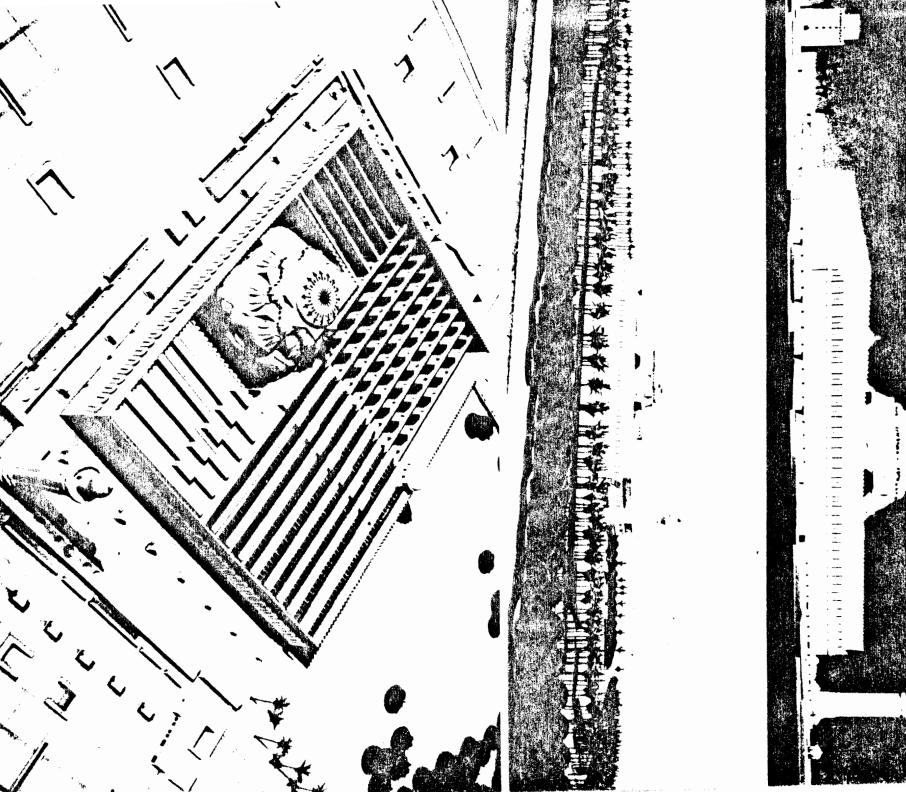
"The advantage of combining monumentation with the play of big and small scales, at the same time allowing the faithfull believes to situate and orient themselves".

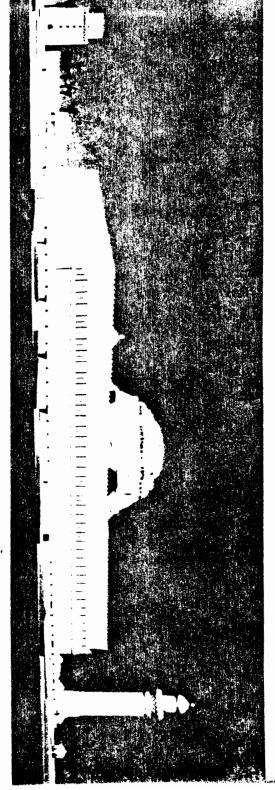
A series of juxtaposed arcades, over-elevated and supported at regular intervals by columns, define the space and form of the sanctuary, stressing also the orientation towards the Quibla. The small number of columns constitute an open and unconstrained perspectives, visions in continuous rows that inhances the spirituality of the place through decorations and ambient natural lighting. The system of columns and arcades(ex. Ibn-Tulun, Al-Mutawakil) expresses the technological modernism used in this project.

The dome used is a signal of completion to the urban landscape of Bagdad whose shape isn't traditional and what appears to be a monumental dome from far is in fact formed by two superposed domes fitted one in the other and formed of mugarnas which are of different sizes and it lets through them diffused and shiny light.

The traditional forms and the symbolic elements used in this project (arcades, ornamentations, cupolas, muqarnas, crenellationa, minarets) are as many uncontested reflexions coming from different sources and they have juxtaposed them without taking their scale, their context nor the materials necessary for their construction to their true litteral historical meaning.







SITE:

MY SITE IS LOCATED AT THE NORTHERN BOUNDARY OF THE GOVERN-MENTAL SERAI IN A LOGITUDINAL STRIP OF LAND BOUNDED BY TWO ROADS: THE NORTHERN IS WAD! ABU-JIMIL AND THE SOUTHERN IS FRANCE ROAD.

THE SITE IS SITUATED IN SUCH A WAY THAT IT IS A PART OF THE CONTINUATION OF THE BUFFER ZONE THAT SEPERATES "HAMRA AREA" AND THE NORTHERN PART OF WESTERN BEIRUT FROM THE DOWN TOWN AREA.

* SOCIOECONOMIC ENVIROMENT AND DEVELOPMENT TENDENSIES:

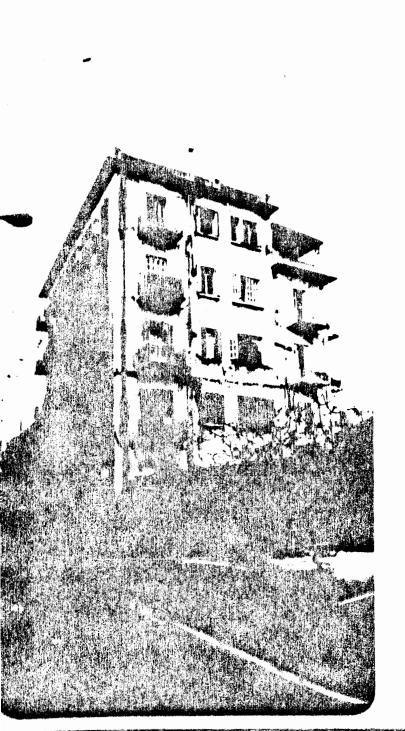
THE SITE IS CURRENTLY OCCUPIED BY A MUSLIM (COMMUNITY) REFUGEE OF A VERY POOR SOCIOECONOMIC STATUS. THIS COMMUNITY IS LACKING CERVICES WHETHER MEDICALLY OR RELIGIOUSLY AND THERE IS ALSO A NEGLIGENCE TOWARDS THE ENVIRONMENTAL RESPONSIBILITY SUCH AS:

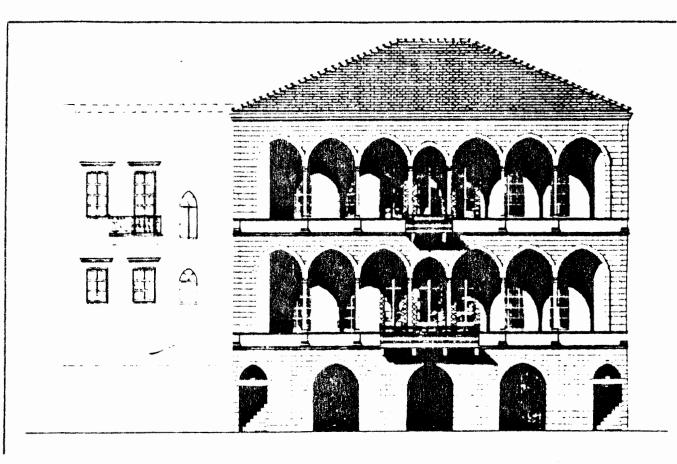
- CLEANLINESS
- ORGANIZATIONAL
- CONGREGATIONAL

* ARCITECTURAL CHARACTER AND HISTORY:

THE SITE WAS A QUIET BYPASS TO THE DOWNTOWN AREA FEATURING A CALM MIXED COMMUNITY OF JEWISH AND CHRITIAN ARMENIAN IN-HABITING DWELLINGS DATING BACK TO THE EARLY 20thCENTURY, POST WAR CHARACTER OTHER THAN THE TRADITIONAL LEBANESE HOUSE IN ITS MANY FORMS



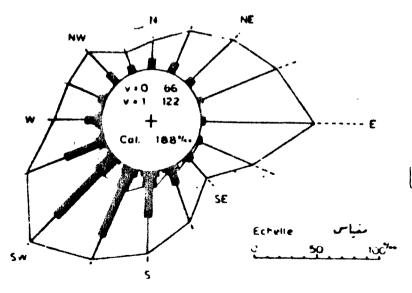




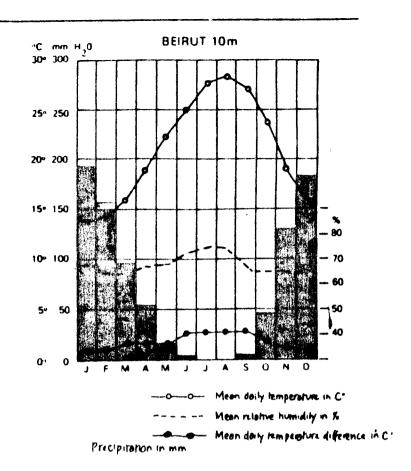
archikackural Gharacker

Climate

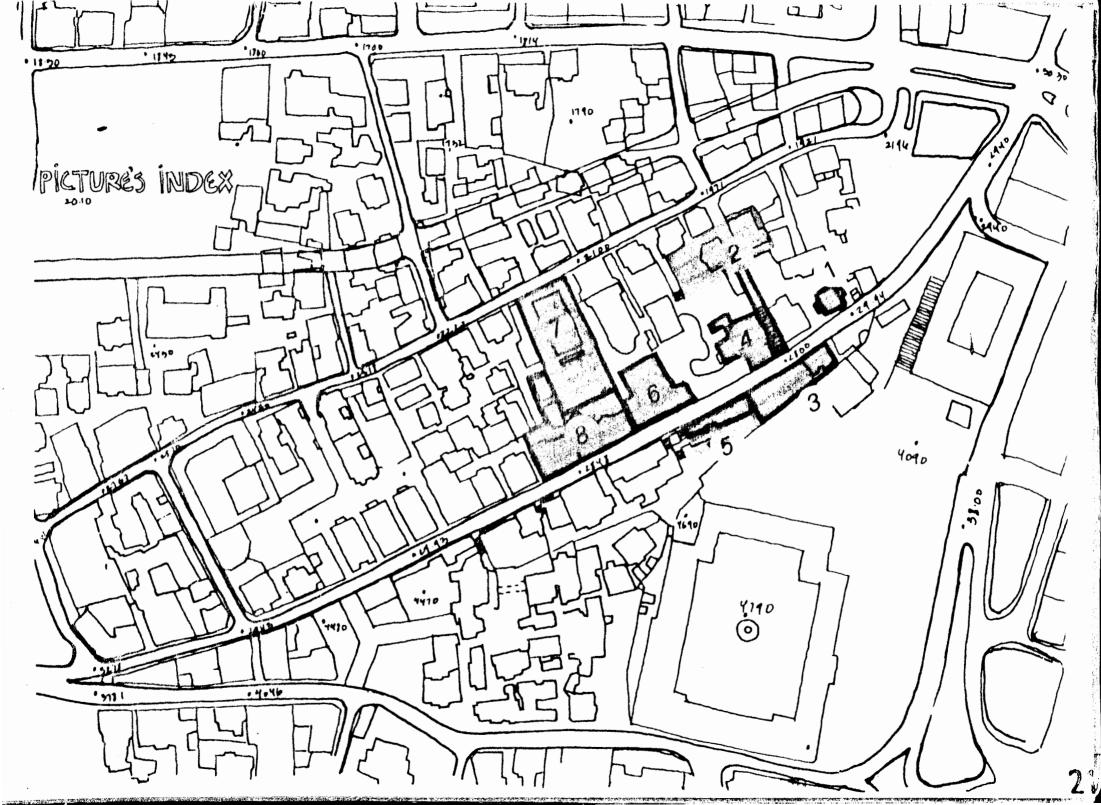
Daily maximum temperatures surpass the comfort limit from May onwards, and reach the work limit in Augest. Mean daily temperature surpass the comfort limit from June till the end of September.



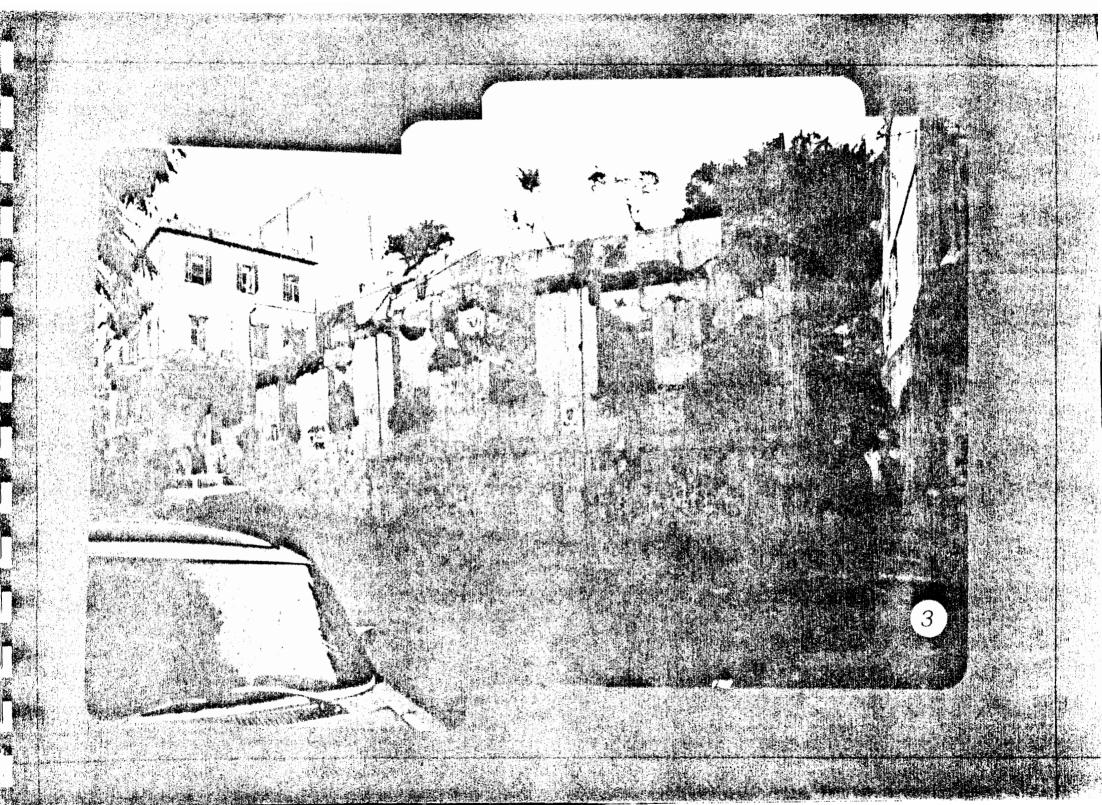
WIND ROZE DIAGRAM

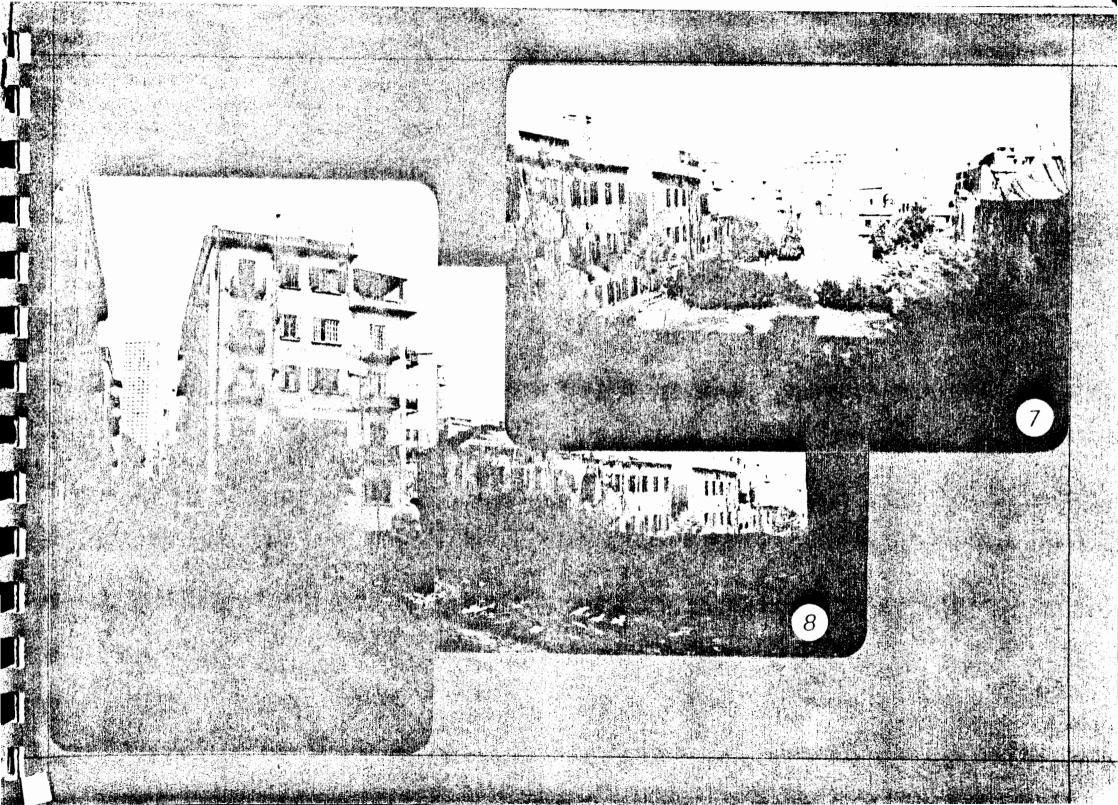


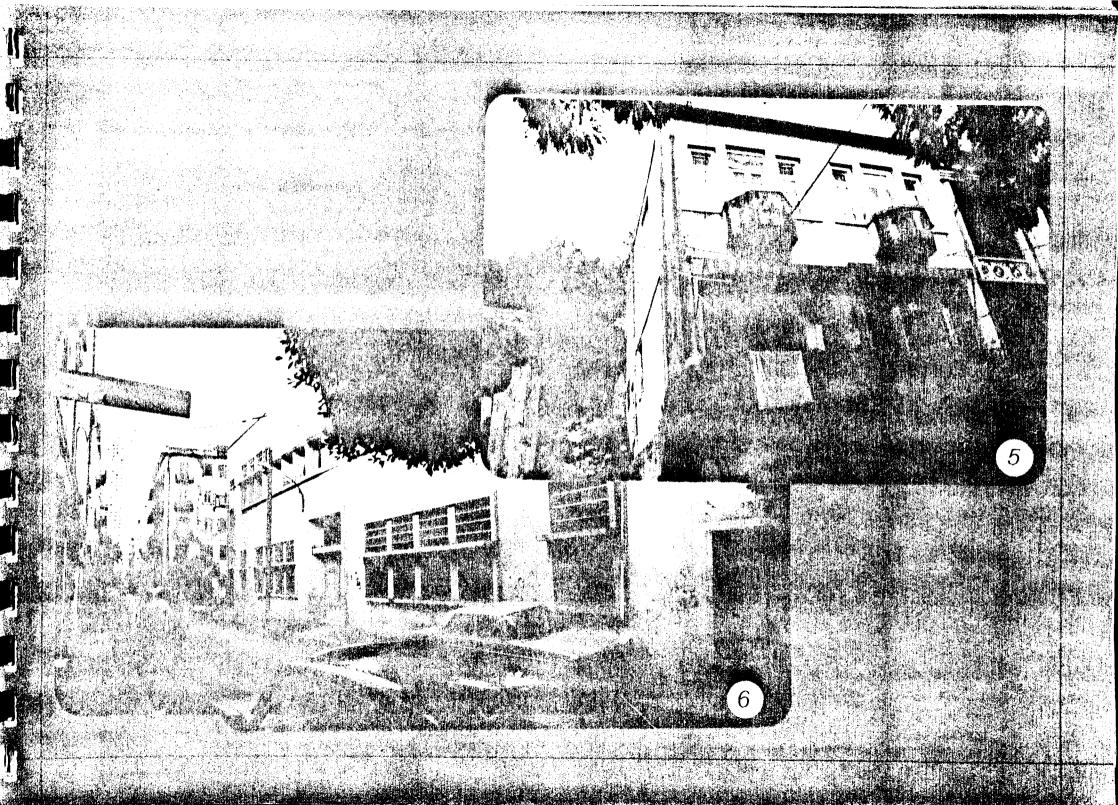
Because of high humidity, cross ventilation is the only natural means of climatization. It is necessary to open buildings to the summer breeze from the southwest, to provide sun protection and sufficient thermal insulation. Heating becomes necessary in the winter during stormy period without sunshine.

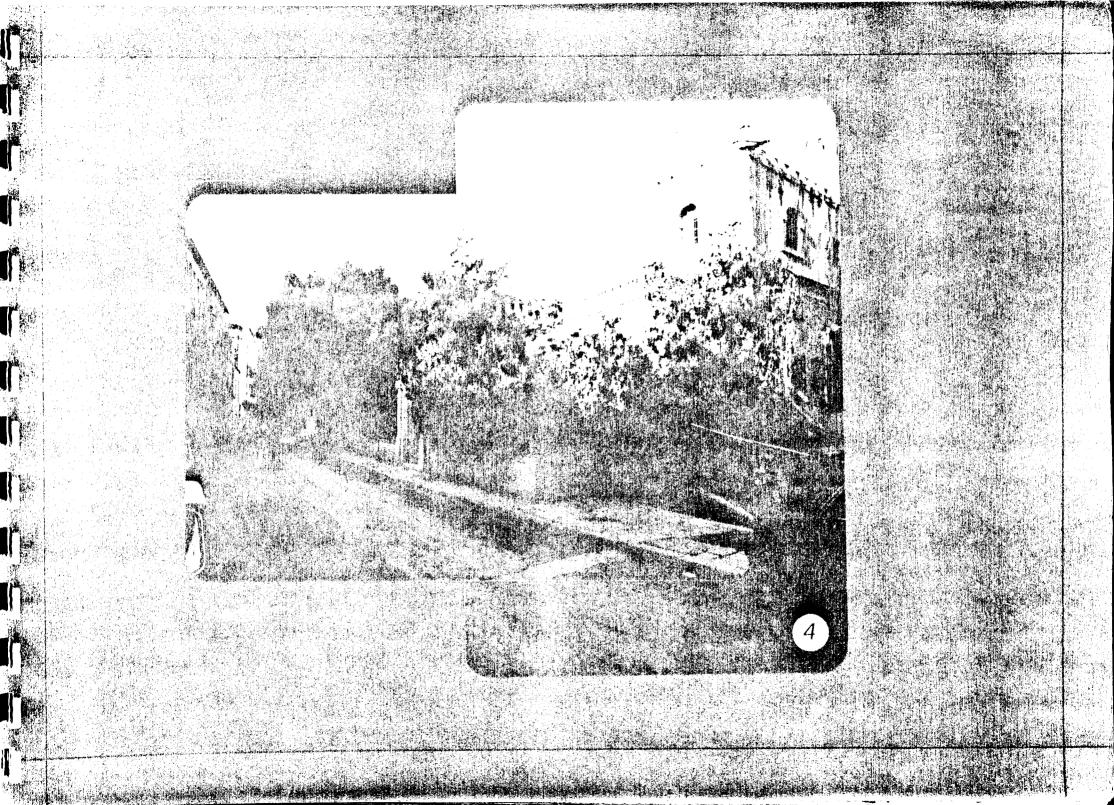


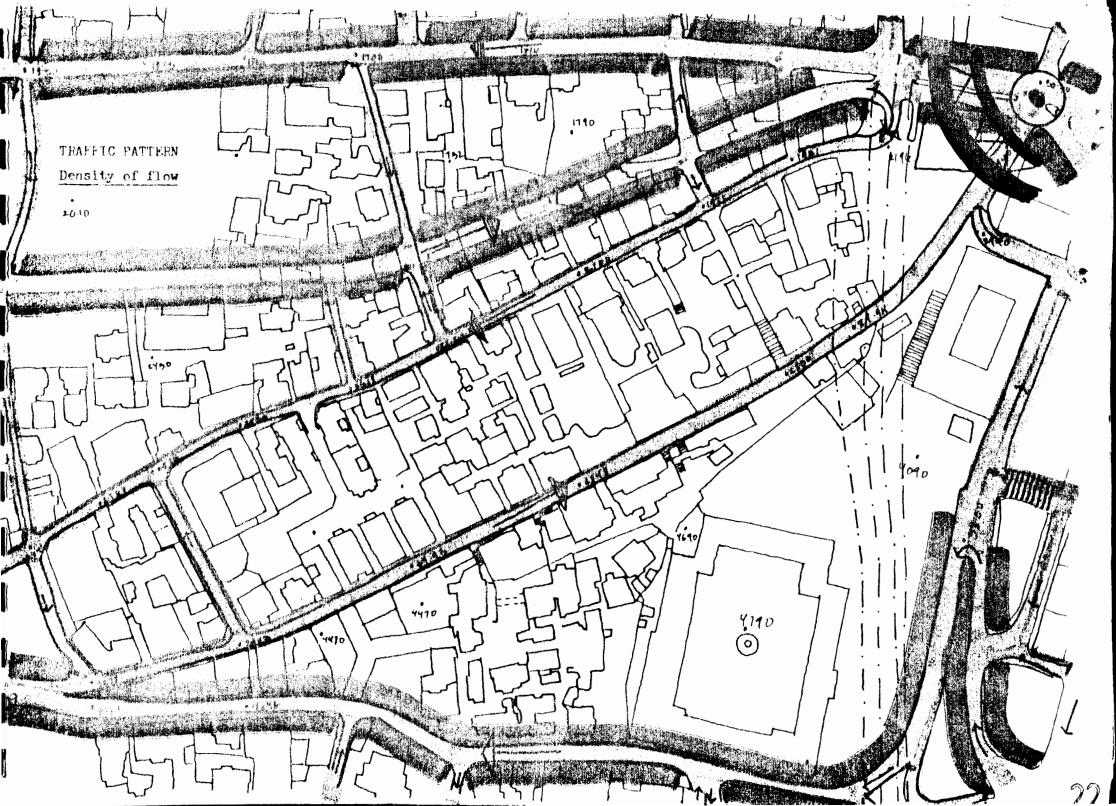


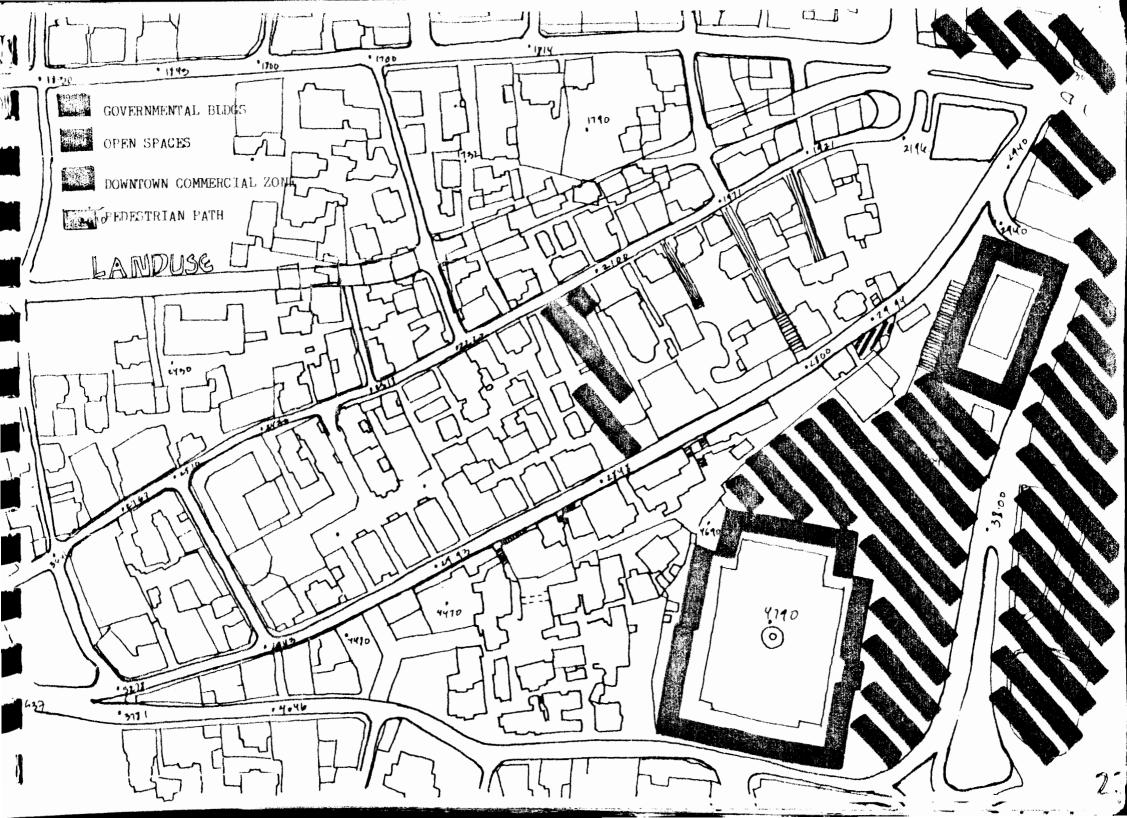


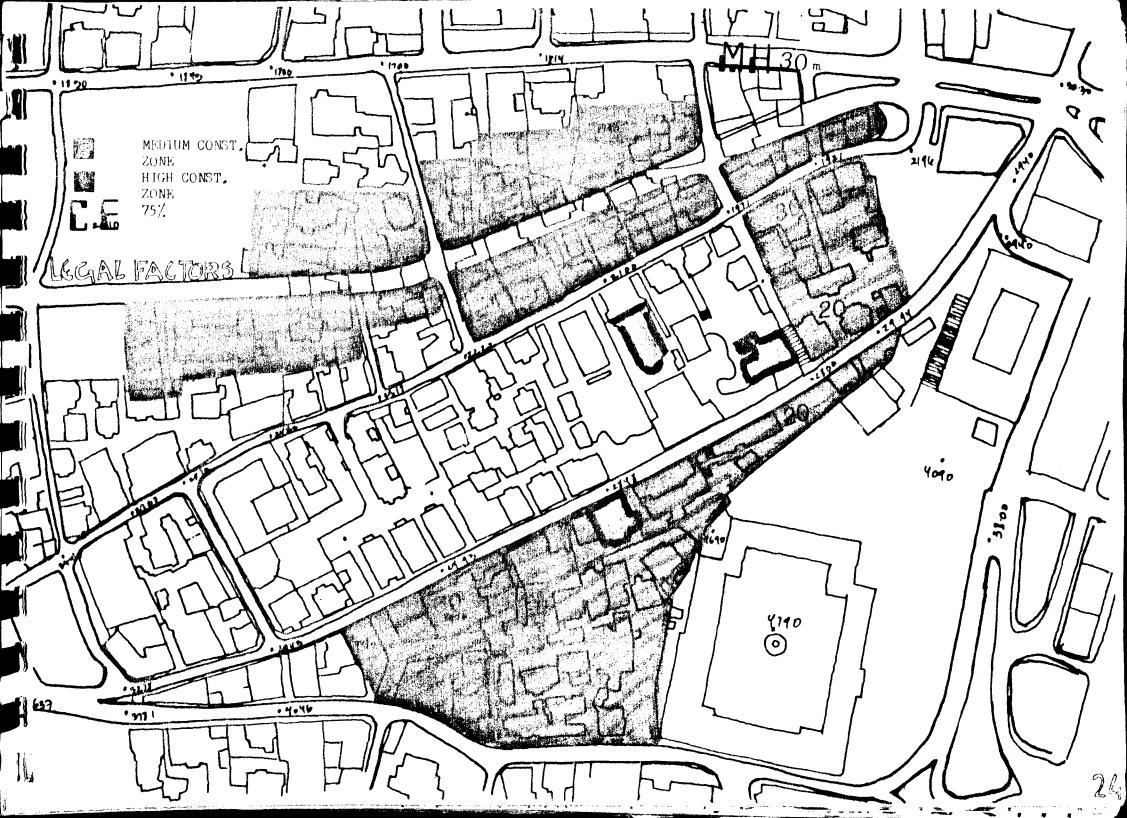










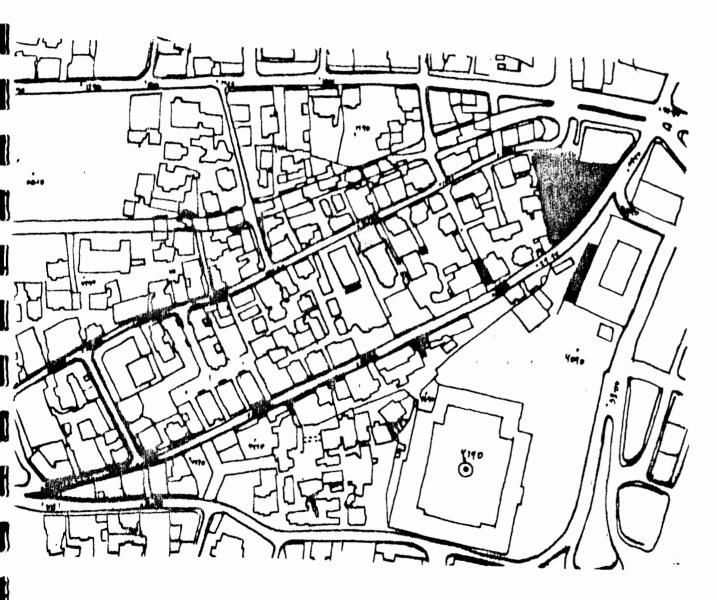


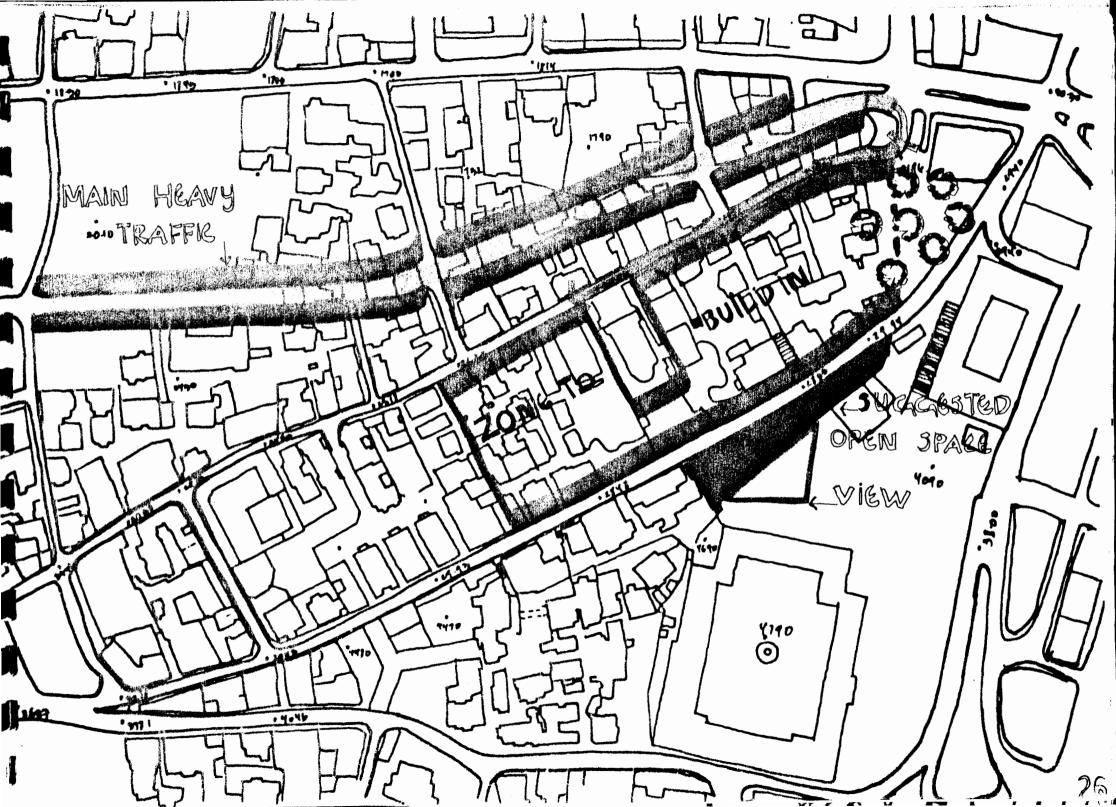
- Restrictions

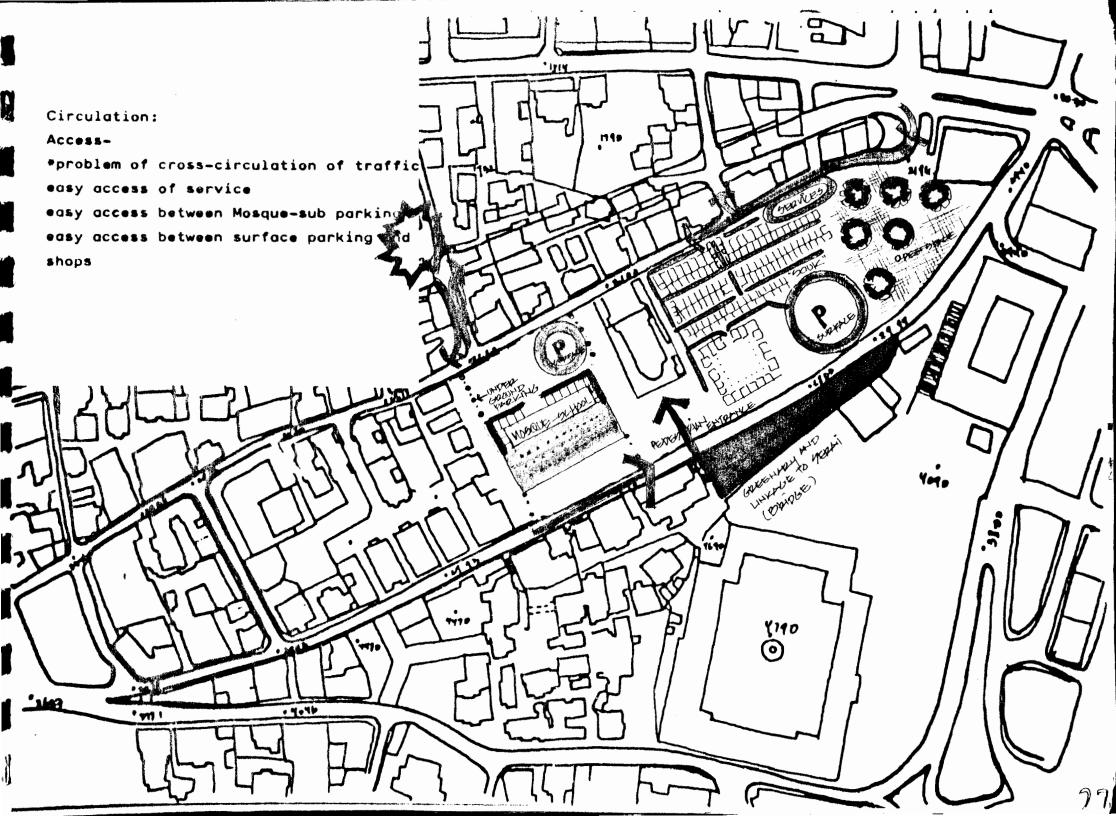
Existing buildings:

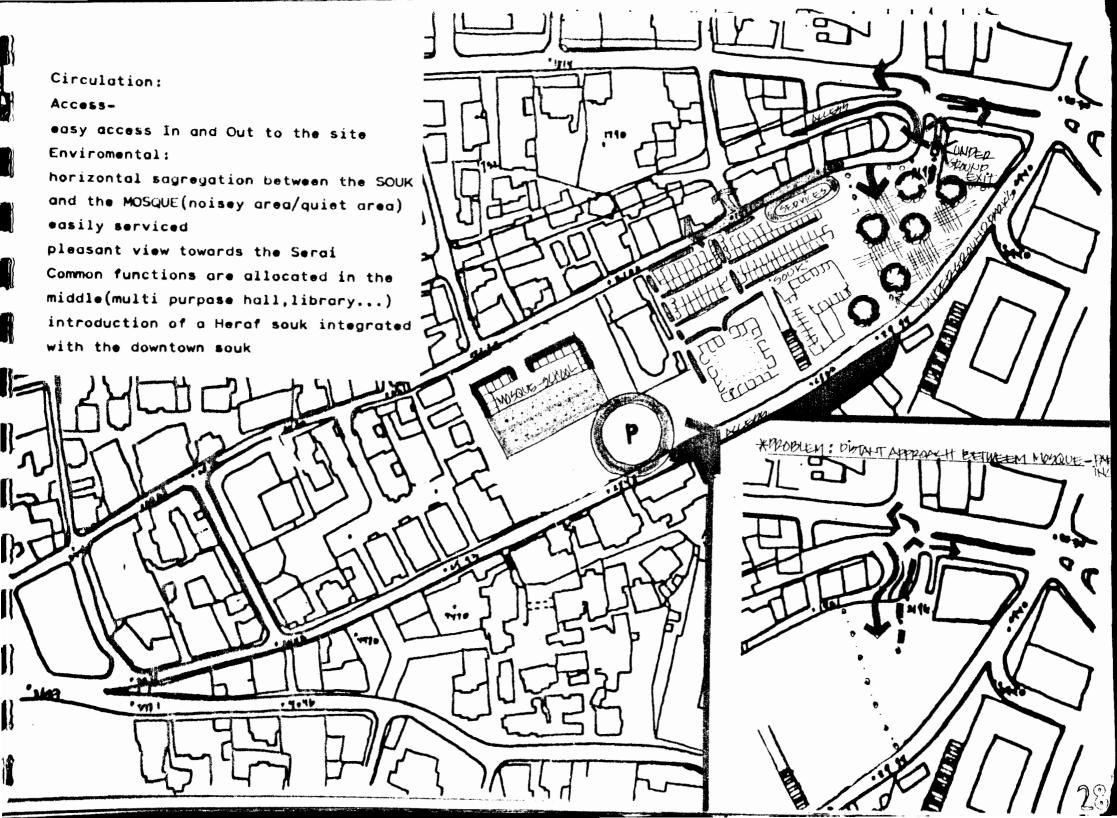
... A Synagogue Landscape:

... A green zone proposed by the government can be included in the design as a side access to the site(pedestrian)











space requirements

Program

Mosque ooo Gourt

Shops

HORKSHOP TRADESHOP

Facilities

Housing Cafiteria Clinic

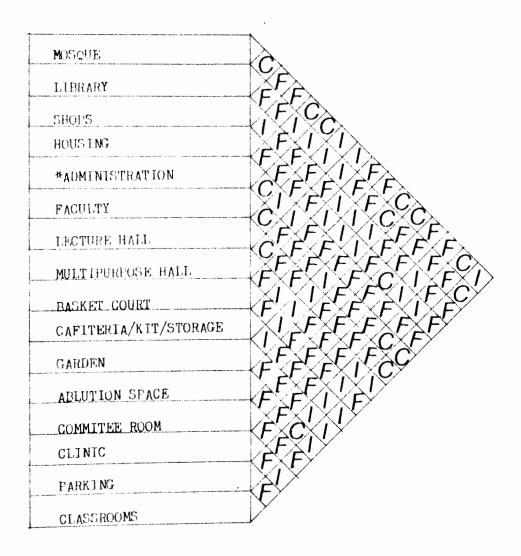
Academic

CLASSES ADMINISTRATION FACULTY descriptions....

NAME	DESCRIPTION	AREA	NUMBER	TOTAL
		······································		
	A LARGE CONGREGATIONAL COVERED PRAYER HALL PROPERLY ORIENTED TOWARDS			
MOSQUE	THE QUIBLA WALL. IT IS DOMINATING BOTH THE INSIDE AND OUTSTDE SURROUND'G	2500	1	2500
	AN OPEN SPACE PRAYER HALL. THE ONLY ACCESS TO THE MOSQUE AND A BUFFER	3000		7000
COURT	ZONE TO THE SURROUNDING SPACES,	1200	1	1200
ARLITTON	A SANTTARY FACILITY FOR WASHING LOCATED NEAR THE MOSQUE AND THE PARKING			
SPACE	ZONE	60	1	60
	TRADE AND WORK SHOPS USED TO SELL AND INCOURAGE THE CRAFTSMENSHIP OF			
	BOTH ISLAMIC AND TRADITIONAL ORIGIN, IT IS USED ALSO TO SELL BOOKS	7.0	50	1000
SHOPS	RELATED TO ISLAM. THERE IS A NEED FOR A WOOD SHOP, KNITTING etc	16	50	1000
	A LANDSCAPED AREA WITH A PEDESTRIAN PATH, USED AS A RELAXING SPACE AND			
GARDEN	FURNISHED WITH SEATING ARRANGEMENTS. SEPERATES NOISY AREAS FROM QUIET			
	A SURFACE PARKING FOR 50 CARS LOCATED NEAR THE MOSQUE.	1100	1	1100
	SUB-PARKING (ONE OR TWO LEVELS) FOR 200 CARS ALSO			
	LOCATED NEAR THE MOSQUE-COURT AREA . IT MUST BE EASILY			
PARKING	ACCESSABLE FROM THE STREET	4000	1	4000

NAME	DESCRIPTION	AREA	NUMBER	TOTAL
		···		
	TYPT CALL CLASS DOOMS COMPOSED OF ZO STUDENTS FACIL THEY ARE USED TO TRACII			
CLASSES	TYPICAL CLASSROOMS COMPOSED OF 30 STUDENTS EACH. THEY ARE USED TO TEACH FUKER, KURAN, TAWHEAD AND FUKEH.	40	9	420
OLACOLO	TUREN, ROBERT, TRAITED AND PUREN.	1.17		100
	A SMALL ASSEMBLY HALL TO GATHER TWO OR MORE CLASSES OR TO BE USED FOR			
LECTURE	PROJECTIONS AND FILMS. IT MUST HAVE A DIRECTIONAL SEATING ARRANGEMENT			
HALL	AND PROVIDED WITH APPROPRIATE ACOUSTICAL TREATEMENT	80	1	80
-RIIG-IT.DIM	A BIG ASSEMBLY HALL USED FOR MULTI-ACTIVITIES. IT IS TO BE EQUIPTED WITH			
POSE HALL	PROPER MECHANICAL AND ACOUSTICAL FACILITIES.	300	1	300
COMMITEE	A GATHERING ZONE USED FOR ENTERTAINMENT ACTIVITIES AND COMPOSED OF DIF-			
ROOM	FERENT SEATING ARRANGEMENTS. IT IS LOCATED ADJOINING THE HOUSING	80-100	1	80-100
ROOM				
	A SLEEPING FACILITY FOR STUDENTS AND STAFF WHO LIVE ABROAD OR FAR FROM			
	HOME . IT CONSTITUTES OF IDENTICAL BEDROOMS, SINGLE, DOUBLE, TRIPLE, AND/OR			
HOUSING	QUADRIPUL. IT WELL PROVIDE PROPER SANITATIONAL FACILITIES.	14	50	1000
	A FOOD SERVICE AND PREPARATION ZONE COMPOSED OF DIFFERENT SEATING ARR-			
	A FOOD SERVICE AND PREPARATION ZONE COMPOSED OF DIFFERENT SEATING ARRA- ANGEMENTS. IT IS TO ACCOMODATE STUDENTS AND STAFF AND USED OCCASSION-			
	ANGEMENTS. IT IS TO ACCOMMODATE STODERTS AND STAFF AND USED OCCASSION-			
	ALLY TO PROVIDE FREE FOOD FOR THE POOR. IT MIGHT BE OPEN IN THE PUBLIC. A DELIVERY ACCESS IS TO BE ACCOUNTED FOR.	350	1	350
CAFETERTA	A DEPIABLI MORDO TO 10 DE MONIONIED LOU"	174713	T	1 000

NAME	DESCRIPTION	AREA	NUMBER	TOTAL
		m ²		m²
	,			
DIRECTOR	HIGH STANDARD OFFICE WITH A SMALL CONFERENCE SPACE	30	1	30
ASST.				
DIRECTOR	SAME AS ABOVE	20-25	1	20-25
gene raph utak wes				
SECRETARY	A SMALL OFFICE, A WAITING ZONE AND A SMALL KITCHENETTE	25	1	25
diagonal representation				
The state of the s				
FACULTY	HTGH STANDARD OFFICE	15	5	75
	A SMALL FREE MEDICAL CLINIC HAVING STANDARD EQUIPMENT WITH A FULL-TIME	100	1	100
CLINIC	NURSE. IT IS COMPOSED OF A RECEPTION AND AN EXAMINING-RESTING SPACE.	10.7	<u> </u>	100
	A PUBLIC STUDYING AND RESEARCH ZONE COMPOSED OF A CLOSED AND OPEN STACK			
	AREA, A PERIODICAL AREA AND A PRIVATE STUDYING ZONE. ALL ARE CONTROLLED			
LIBRARY	BY A SUPERVISOR. A DELIVERY ACCESS IS TO BE ACCOUNTED FOR.	350	1	350



	MOSQUE	
	LIBRARY	333
-	SHOPS	3 2 2
	HOUSING	2332133
	*ADMINISTRATION	73737233
	FACULTY	23333331
	LECTURE HALL	2 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	MULTIPURPOSE HALL	3322233133373
	BASKET COURT	32 233 3 2 2 2 1 5
	*CAFITERIA/KIT/STORAGE	313333331723
-	GARDEN	3 3 3 2 1
	ABLUTION SPACE	3 3 2 2 2
-	COMMITTE ROOM	33,332
	CLINIC	33,25
	PARKING	33
	CLASSROOM) Y

PROXIMITY DUE TO DISTANCE

CLOSE: C

INBETWEEN: I

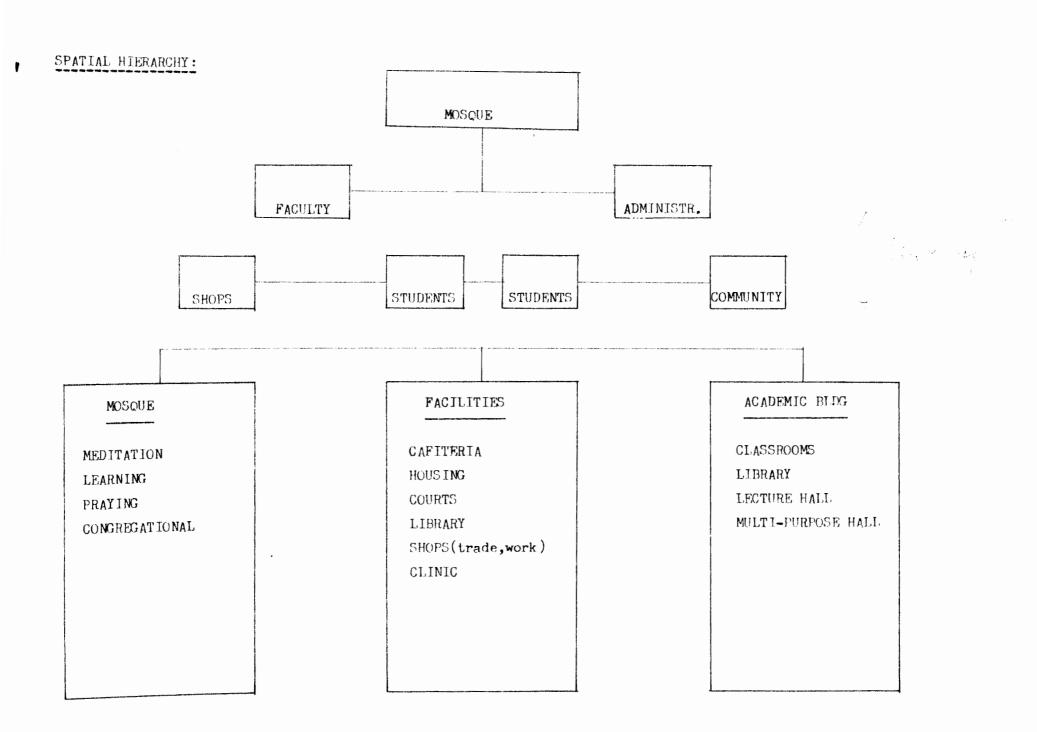
FAR: F

FREQUENCY OF INTERACTION

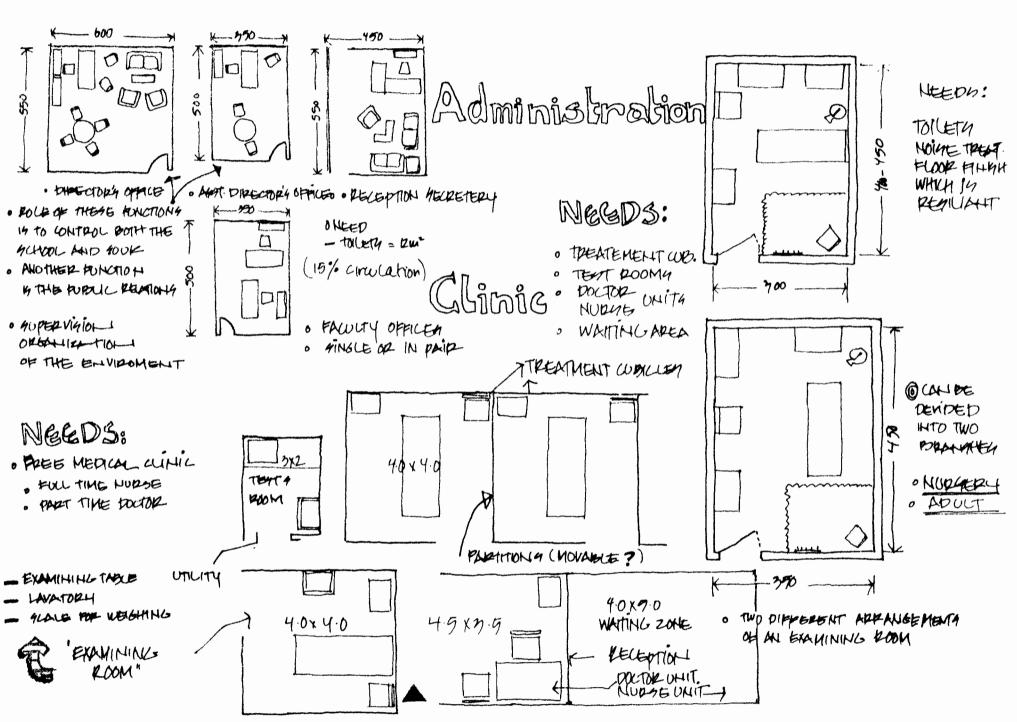
_ FREQUENT: 1

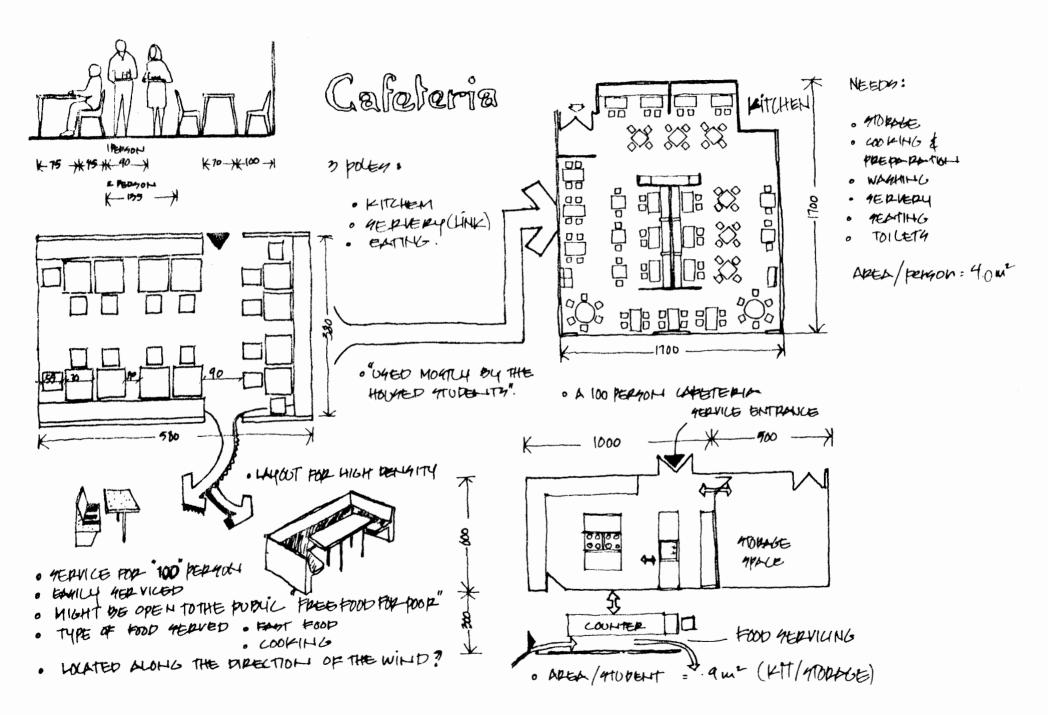
SEMI FREQUENT: 2

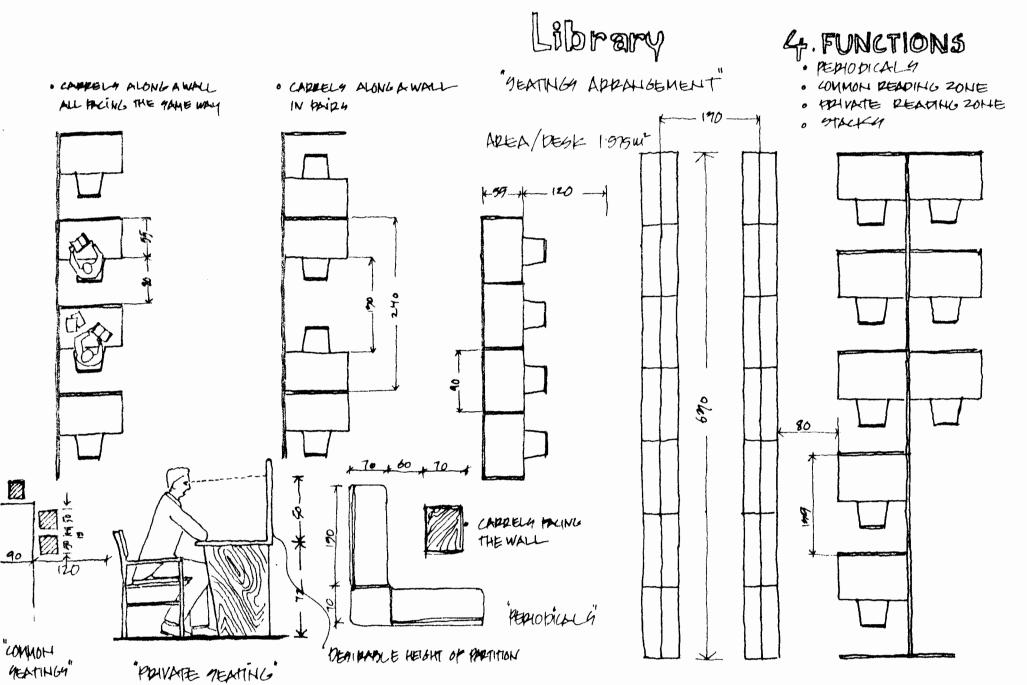
NON FREQUENT: 3



SPACC analysis and standard

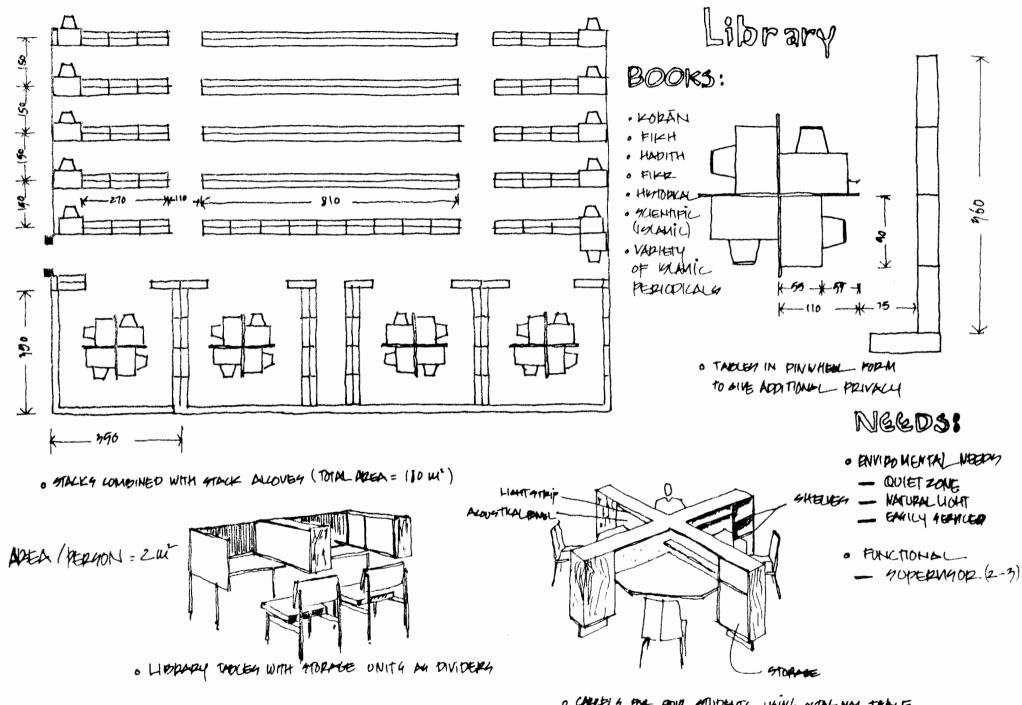




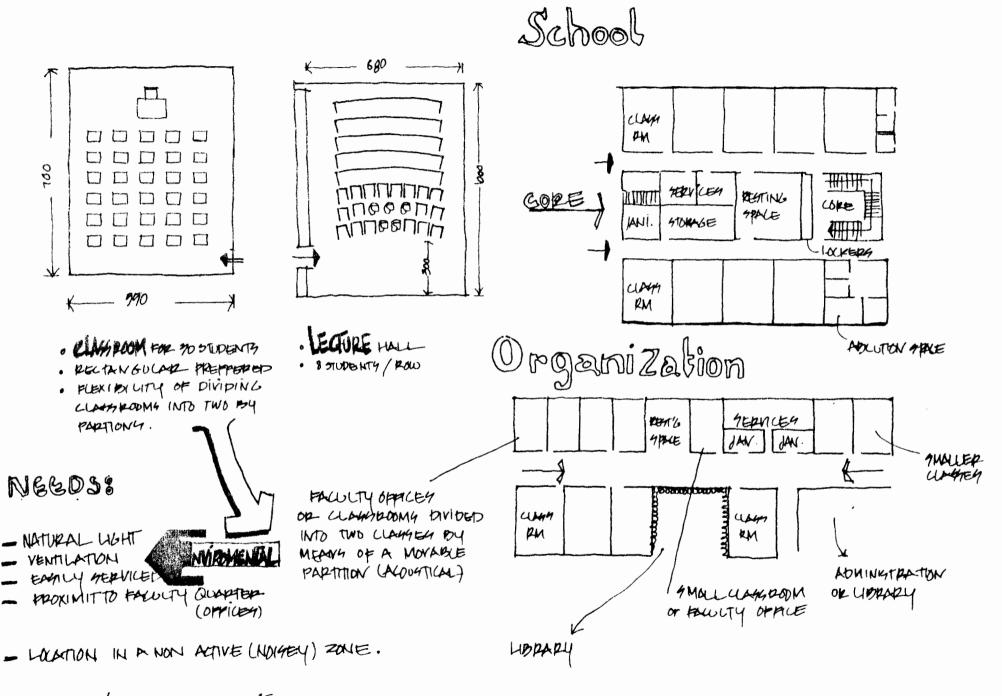


Length Little Land Land Control of the Control of t

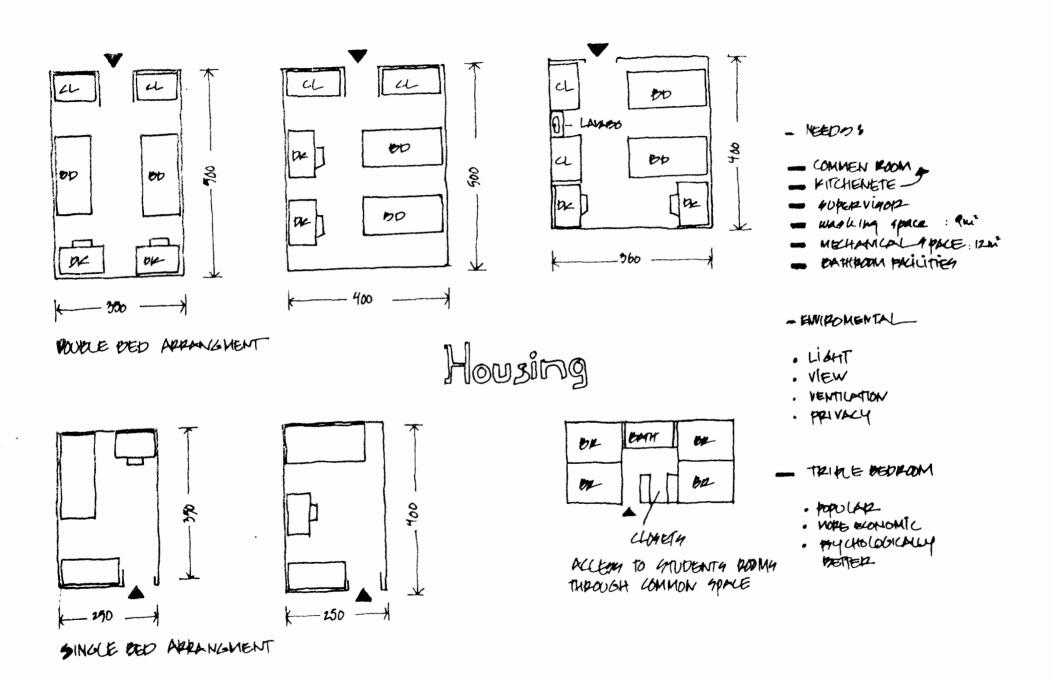
ODUBLE ADDY OF CAMPELS IN BOOK STACK OF DISTONG ABEN.

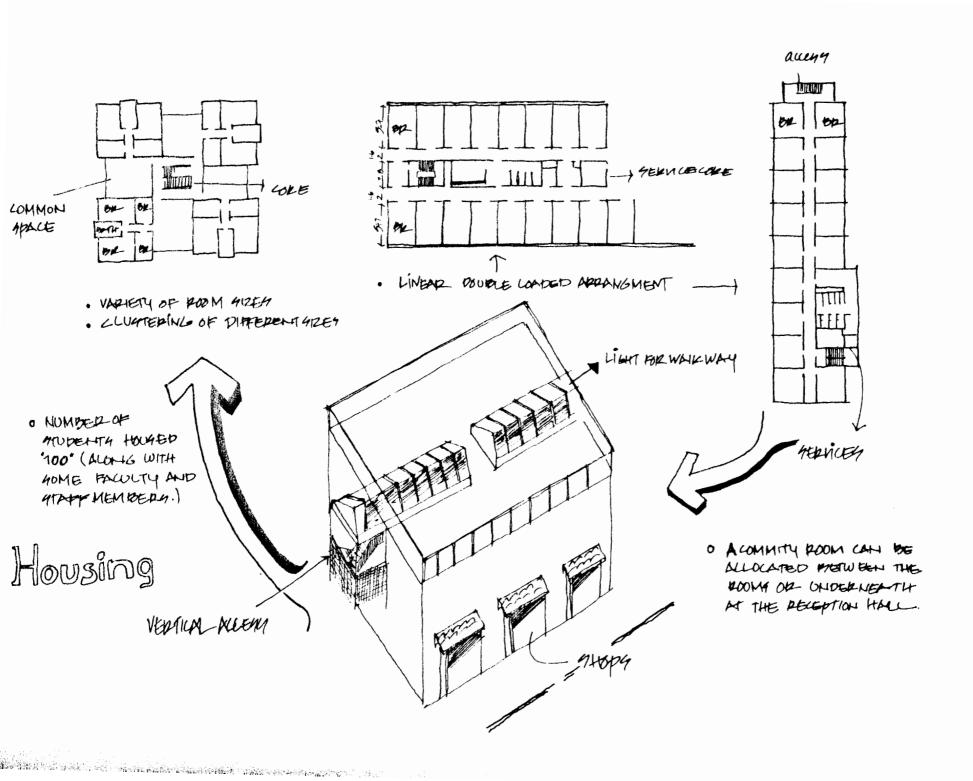


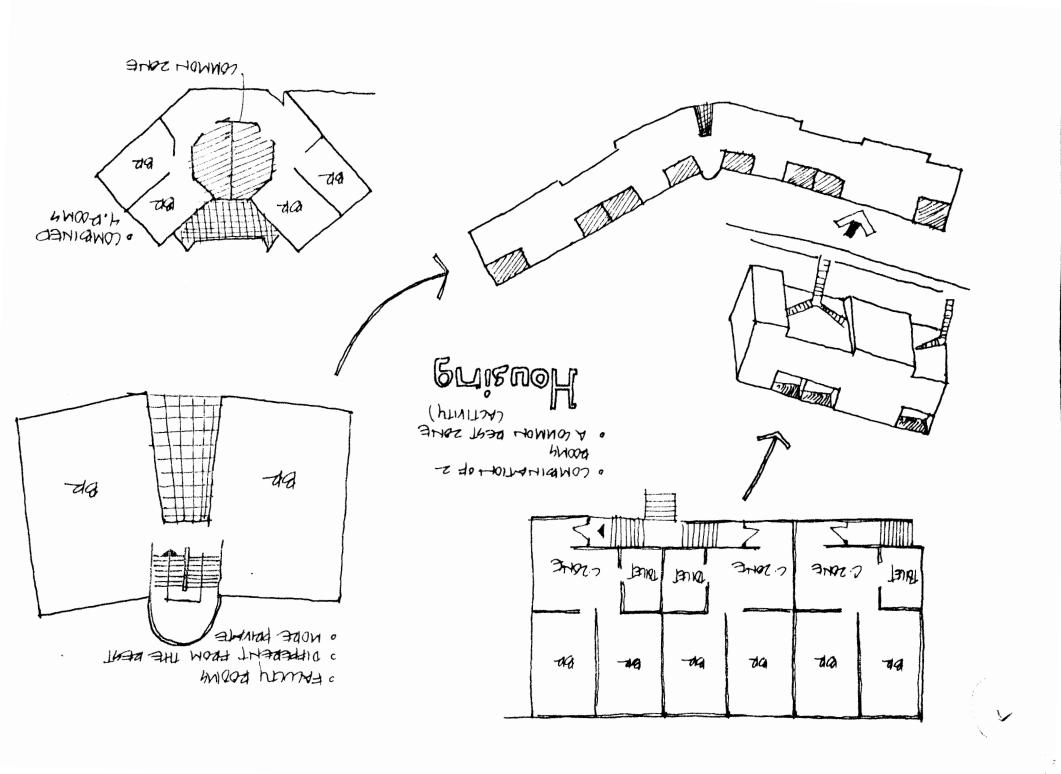
O CANFELS FOR POUR MUDENTS USING OCTAGONAL TABLE

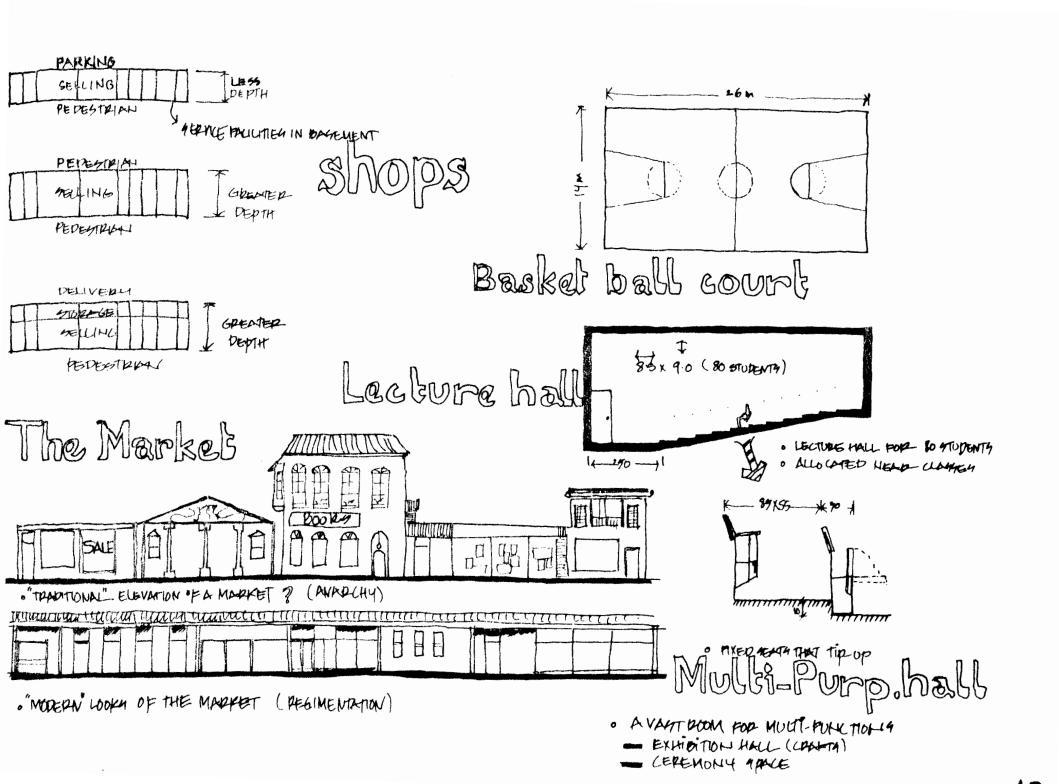


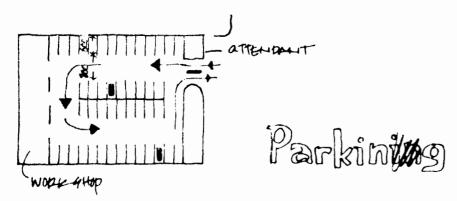
ADEA / PERMON: 1.5 M2



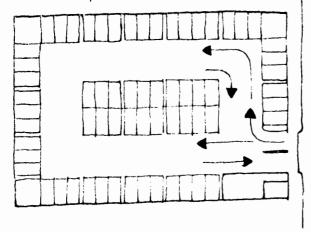








· 41MPLE LOOP CHINGLE LINE) PAPHING

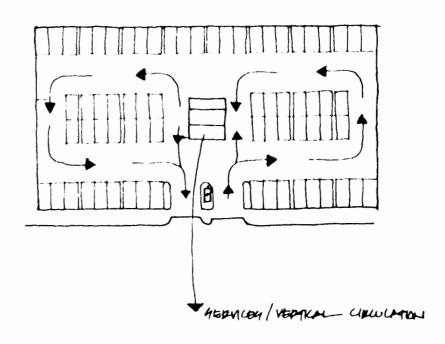


- O ADEA/CAD = 29 X99 EXCLUDING CIDCULATION
- · DOUBLE LANE LOOP MAKKING



· 9LOPING PLOOD GARAGE

· DOUBLE LOOP DOUBLE LANE PARKING



* Types NEEDED:

- · GURPACE PARKING (90 CARA)
- · 400 PADEING (200 CARY)
- · NEEDY:
 - ESAILY ALLEMABLE FOON MAN DOOD
 - EMILY EXITED TO MAIN DOND OF MINOR DONDY

Space Analysis

NECDS:

- · FXILITIES
- · PRODUCTIVE YPALES
- · phplay

GOALS:

- · STACED THAT COMFORM TO THE OPERATIONAL PROCESSED OF THE VARIOUS FIELDS OF WORK:
 - HEAVY EQUIPMENT ... WOOD/METAL WORK
 FURLIACE HEAT ... POTTERY, GLANGUE... LIGHT EQUIPMENT ... WEAVING

THEY 9HOULD ALGO COMFORM TO THE:

ELIVIDOMENTAL DEQUIREMENT DIMENTIONAL REQUIRMENT HERARCHICAL PEQUIRMENT ALLEGYAMILITY L-16HT VIEW VEHTILATIONS OUTDOOD OPPLES

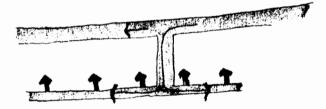
Servicing

- " FEETED" OF DOW MOTERIALA
- O MENLIG CAR TRUCK (144-1)
- · May be used for collectiful?



· EXTERNAL HELDER

- · INTERNAL-
- FEEDER
- · GELOHIDARY FEEDER



A GC & SS

· PROVIDE PAPEING PARE

"SOUK

Space Analysis

NECDS:

- · FXILITIES
- · PRODUCTIVE YPALEY
- · phylay

GOALSS

- · SPACED THAT COMFORM TO THE OPERATIONAL PROCESSOR OF THE VAR-1000 FIELDS OF WORK:
 - HEAVY EQUIPMENT ... WOOD/METAL WORK
 FURHACE HEAT ... POTTERY, GLAMMENT...
 LIGHT EQUIPMENT ... WEAVING

THEY 9HOULD ALGO COMFORM TO THE:

ENVIRONENTAL REQUIREMENT
DIMENTIONAL REQUIREMENT
HERARCHICAL PEQUIREMENT
ACCEMPADILITY
LIGHT
VIEW
VENTILATION
OUTDOOR-OPALEA

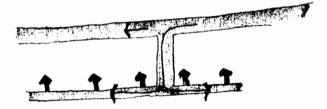
Servicing

- " FEETER" OF DOW MOTERIAL
- O MEALIG CAR TRUCK (VAL)
- · May be used for collectiful?



· EXTEXNAL

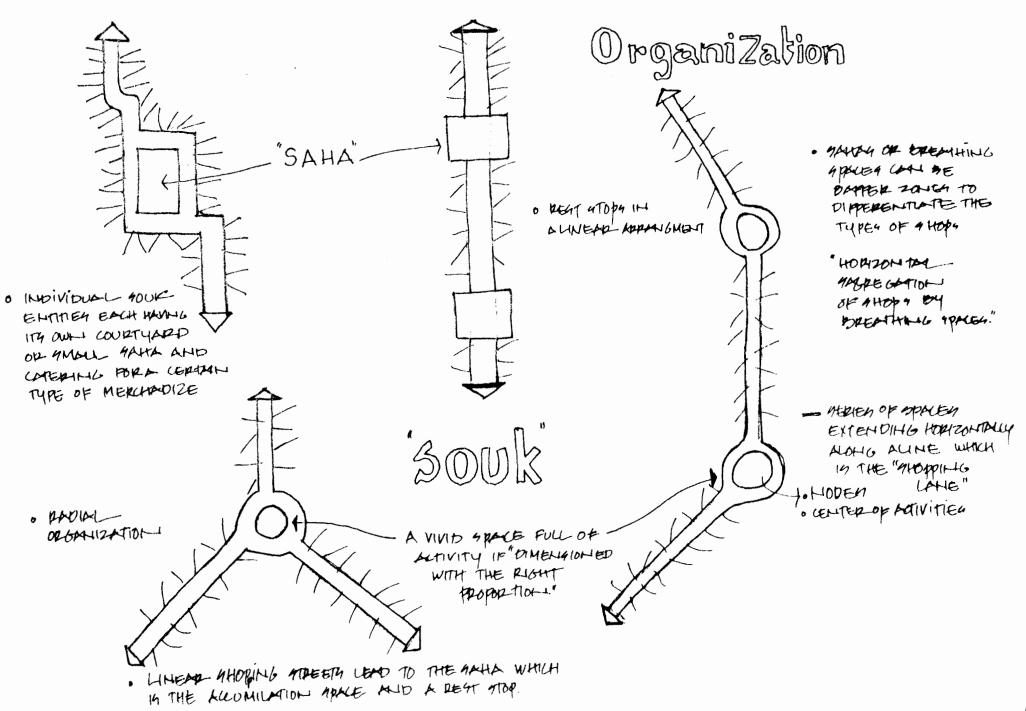
- INTERNAL-FEEDER
- · GELONDOPH FEEDER



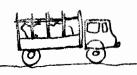
Accesss

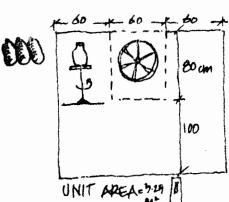
· Provide PAPRING PARE

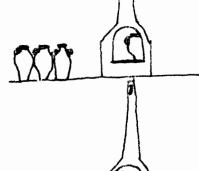




Colored to a little to the contract of the con









- · SEDVICIHO
- · CLAY TORAGE (BUCK, FINT, WET)
- · CLAY MAPHS & MOLDING
 - MECHANICAL WHEEL
 - NUDD4
 - WATER SUPPLY

- · VARHIAHING & 15 DAYA RENTIHG
- MELLY
- · KILLY (WOOD HEATED OF CAM PIRED)
- · GLAZING
- 4MELLA
- bust plee
- HEAT CENERATED
- · 40pe & DAPLAY
- FELSOILE
- DIFFERENT ITEMS

Pollery Workshop

- · SERVICE YARD EARLY ALLERY FOR DELIVERY
- o more boom PROPER-HUMIDITY CONDITIONS VENTILATION
- o potteby work appect WHEEL SPACE 41HK (HOT & COLD WATER) NON GUPPERY PLOOP FIHMH PREFERABLE NATURAL LIGHTING TOLETA
- PENTING YTORE DAY NO VENTUATION
 - O FURNALE MEA (THERMAL INGU.) IP GAG PIDED PROVIDE FOR: - CHIMMHEY EXHAUGT/VENTIL.
- · GLAZINIC TPACE VEHT. / bugt collecting system.

TRADE 4 HOBY 100th BOOM. 0 20 WZ

⊙ √ . ~ ~ ~

TOTAL: 90 m3

· 16-20 W2

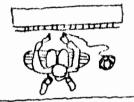
o 910 RAGE OF THEEACH & WOOL
BULKE
bust



- · MORE FOOM (DRY TIME)
 DUM GOLLECTING SYSTEM.
- o EANY PLEESS FOR BELIVERY
- o tollery AND LOCKEDS

0 20 2 guz

0 10 WL



respirat



O WEAVING WORLD

LOOMG OF VARIATING 912EG

DUAT

O WEAVING WORK 9HOP

DUNT-FREE GUPPOULLDING

VEHTILATION

N6205:

ace Requirement

-

O GODE BOOM
EARLY TRUCK ACCEUM?
OF EARLY ACCEUM TO YARD

O DISPLAY IN TRADESHOPS

a 21/w

TOTAL:135m3

NB OF 30



-160-200

· Grobacte of blog of other

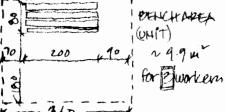
to me thoughted to me exported

48



BEHERSL WORKS AREA
19th 182-11







FIHIGHLING

用骨件用

- · WOOD MODAGE (BULK, Equipments tooly)
- o WOOD WODE DUATY MOISY BRAIC POWER TOOLS: DEFIL, SAWA, LATHER CHIREL WODE
- So MELL/ EVYT FREE
 - 0 HHIAHING 0 DUATY 0 DAMIC FOLLER TOOLS

· 014/2/44

Wood Workshop

- · 4000 ROOM

 PROPER CONDITIONS OF HUMIDITY
- O EMY ALLEYS FOR DELIVERY
- o tolety + latery
- WOOD WORK 9HOP
 DUST COLLECTING SYSTEM
 [NOIDE] CONTROL SYSTEM
 FLOOR LOADING 2/4 ton/m²
 MARKE PLACEMENT OF NAWM, TRILLS
 BLLOVE FOR QUET CHISEL WORK
- \$. PAINT 4 HOP

 D VENTILATION/ DUNT COLLECTING MYS.
- DO PINIGHIHUGHAP

 2 GAME AN PAINT THOP

- · Export (Ermy swear to yord)
- · TRADE 9+0P
- o 170RE apace

PRODUCT: MODIAL WOOD CARVING FURHITURE ect.... 0 20-30 WZ

0 10 Wz

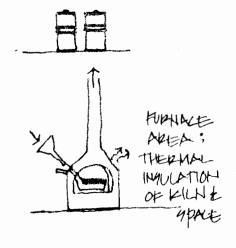
108. 10m

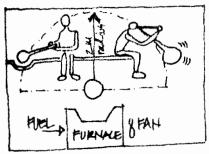
7pace

TOTAL: 180 m3

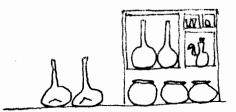
· 29 w2

NB OF 30 PERSONS 30





WORKING AREA HOR D = 10 W



- · 970 PAGE (PROJEH AND DUT GLAM)
- O GLAMY MELTING IN KILN CONTINIOUM HEAT TO PREVENT MOLIDIFICATION

O WORKING AREA

80 HANDY EQUIPMENT

80 HOT COMPITION

- · COOLING & STORAGE
 HEAT
 DIFFERENT ITEM4
 FRAGILE ITEM4
- · DIARRY (TRADE 9+00)

Glass Blowing Workshop

- · new (ct you)
- · TOILETY/LOCKERS
 EARY DILEYS
 HORE ROOM
- O THERMAL MOULATION OF KILLY

· EAMY ALLEMY TO EQUIPMENT & FALLY VEHTILATION HEIGH CEIMNG

NECDS:

· 910PEROM (VELTILATED)
4HELP TO LEILING

· PURIL ALEGY

Saglujiremeni

1042

Space (

30

0 20 42

TOTAL: 90 m

0 16-20 m²

NR OF 20 PERSONS 20

Space summary

FUNCTION	L	area (m²)	
Mosque	Court	3500	
Shops	WORKSHOP TRADESHOP	580 420	
Facibilies	Housing Capteria Clinic Others	1100 350 100 300	
Academic Parking	CLASSES ADMINISTRATION FACULTY OTHERS	420 80 75 430 5100	
		TOTAL AREA 12455 m²	

GONGQP\$5000

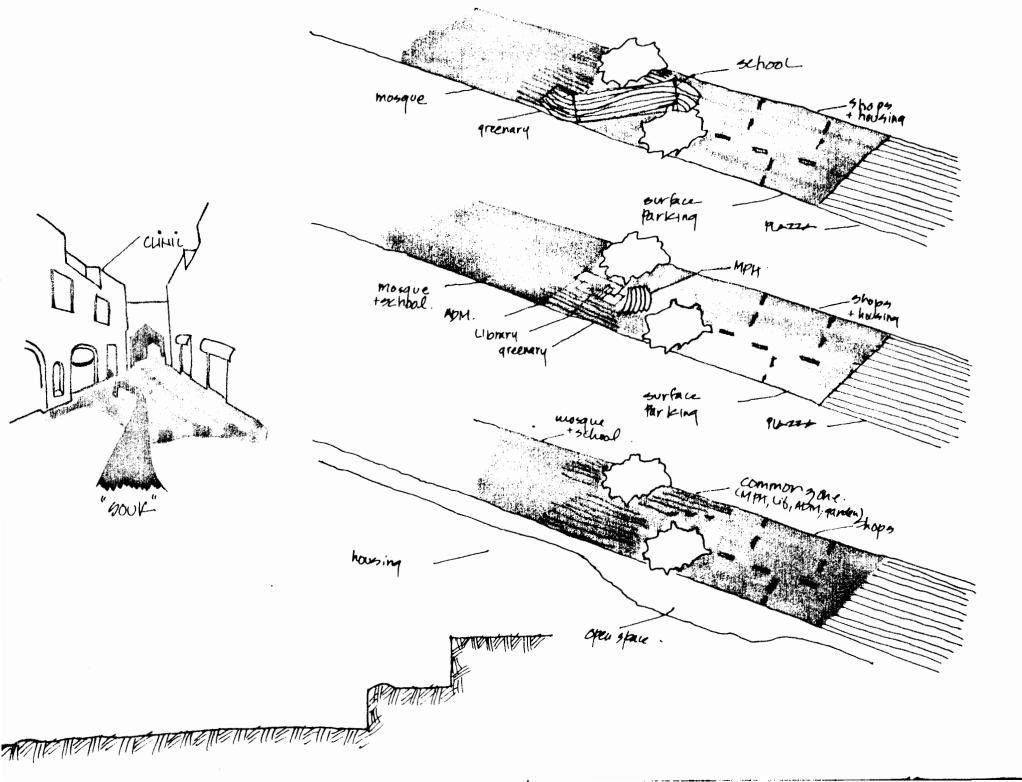
design concept

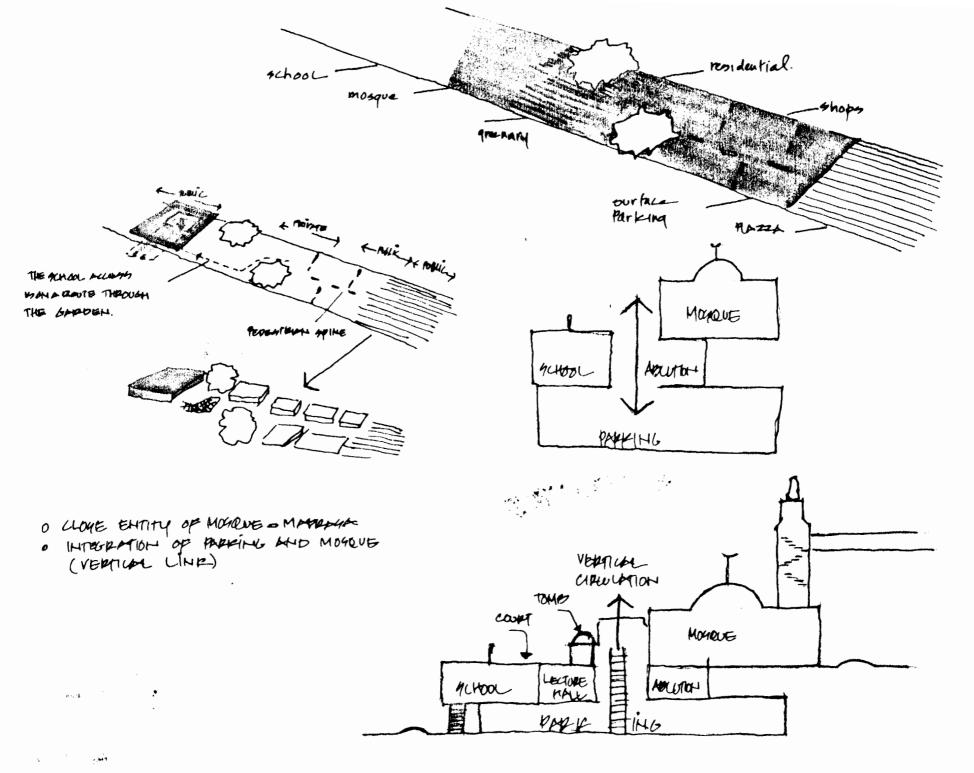
In brief:

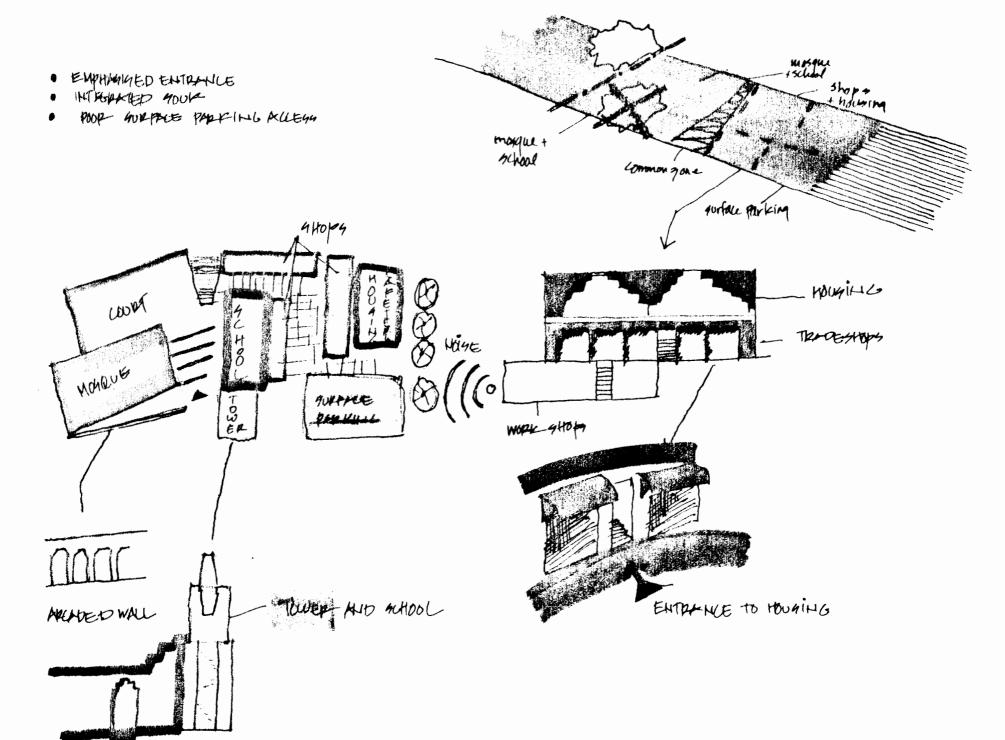
- A modern composition is to be acheived forfilling the social, physical, and functional aspects of the project.
- The translation of the traditional expression (mosque-souk) to a contemporary context of form and aesthetics.
- The project shouldn't be a passive synthesis of historic elements nor be a work of imitation. It is to be a modern work born from the discovery of the human values and issued from the islamic tradition.

Planer (Torres)

Lapanos Painasia







bechnological concept

In brief:

- The use of modern building technics and material such as reinforced concrete and steel construction.
- The application of varios systems of construction such as:
 - Two storey construction
 - Large span construction

rarances...

THE EDUCATIONAL AND MULTIFUNCTIONAL BUILDINGS IN TRADITIONAL ISLAMIC SOCIETICS... RENATA HOLOD BIGRUT MASS PLAN 1977

_ A.A FEBRUARY 1981

_ A.A SEPTEMBER1983

RESCARCHIES.

BRAGHDA JABER

MAHA NASRALLAH

NEUFERT

TIME SAVER

INTERVIEWS:

- SHICKH ABDULLAH AL-HABASHI

والراك والواري والاستدادي في مصر

دكتور صالح لمي مصطغى

- _ ISLAMIC ARCHITECTURE ... J.D. HOAG
- Les Mosquees du laire ... Gaston wiet
- _ Cairo a life-story of 1000 years 969-1969

MINISTRY OF CULTURE

		•		
				ì
				•
				1
				3
				•
				•
				-
				4
				.
				_
				_
•				
				-
				' <u></u> '
				. 4
	•			2\