



The Aga Khan Award for Architecture

Social Medical Centre

Ghardaia, Algeria

Architect:

Mikoud Boukhira

Oran, Algeria

Client:

Caisse Nationale des Assurances Sociales et Accidents du Travail

Algiers, Algeria

Date of Completion:

1987

Table of Contents

1992 Technical Review Summary (5 pages)
1992 Project Summary (2 pages)
1992 Architect's Record (6 pages, in French)
Nomination Form (2 pages, in French)
Images and Drawings (13 pages)
Thumbnail Images of Scanned Slides (9 pages)
List of Visual Materials (8 pages)

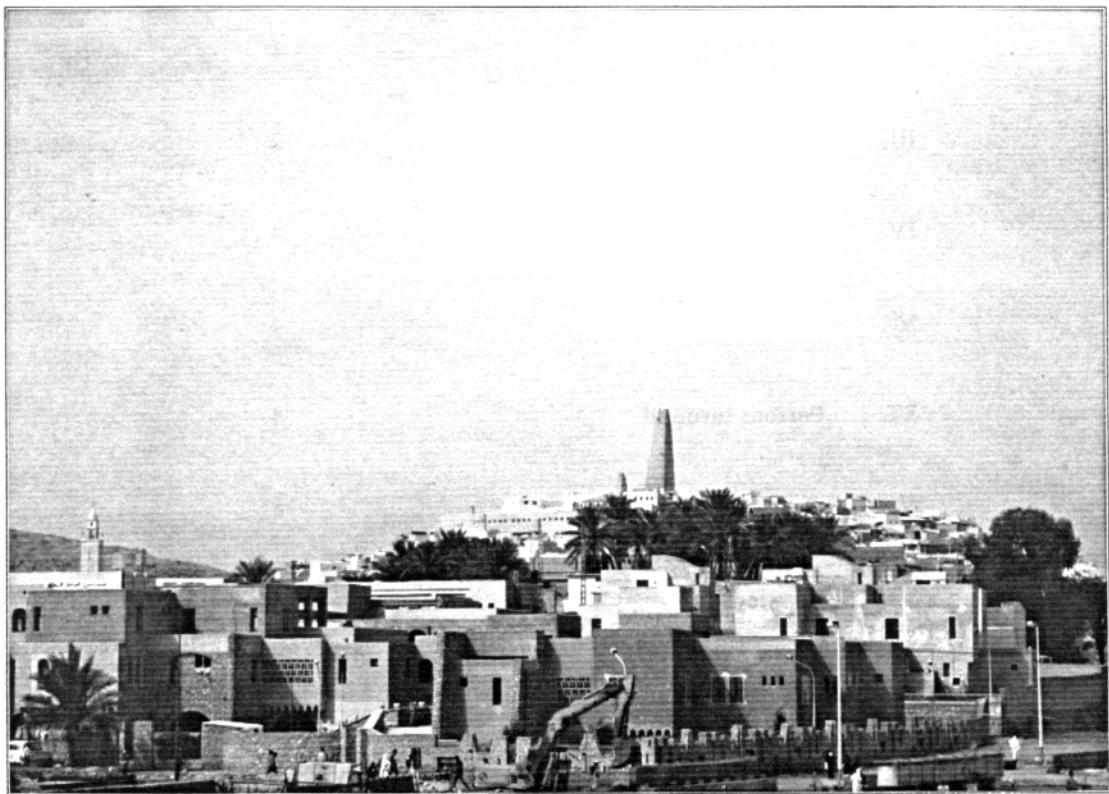


1992 Technical Review Summary
by *Serge Santelli*

1169.ALG

Social Medical Centre

Ghardaïa, Algeria



Architect

Miloud Boukhira
Oran, Algeria

Client

Caisse Nationale des Assurances Sociales et Accidents du Travail
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I. Introduction

The Social Medical Centre of Ghardaïa is not used as a medical centre and was never used as a medical centre. Conceived and built to welcome medical and sanitary facilities, the complex was converted to office use shortly after completion. The buildings have been transformed and adapted to suit the new programme.

The original programme of the Social Medical Centre consists of three distinct elements:

- The medical centre itself, for dental and general medical facilities, child and baby-care sanitary programmes;
- Administration, which provides offices for medical insurance payments;
- Staff housing.

The building was financed by the *Caisse Nationale d'Assurances Sociales* (CNAS), a public service organisation which is linked to the Ministry of Health but has an independent administrative structure. In the early 1980's the CNAS developed a very ambitious programme for the construction of social medical centres throughout Algeria. The social medical centre at Ghardaïa is one of numerous medical centres built in Algeria during this period.

In 1984, the government decided to suppress all existing medical centres and to develop public policlinics to replace them. The existing social medical centres were transformed to accommodate different public functions. The Ghardaïa social medical centre was transformed as the headquarters of the CNAS for the *willaya* (regional administrative unit).

The complex also accommodates the *Centre National des Retraités* (CNR) and the *Office National d'Appareillage et de Protection des Handicapés* (ONAPH). Designed to accommodate sixty people, the building presently accommodates 146 people.

II. The Context

The present situation is the result of competition between different administrative services of the Ministry of Health. It seems that the success and the relative wealth of the CNAS - which manages all citizens' insurance contributions - was unacceptable. The social medical centres played a very important rôle, which was previously the domain of the policlinics. The social medical centres were in competition with these policlinics and the decision was taken to suppress them. This decision was officially adopted in 1985, while the social medical centre at Ghardaïa was under construction. As a consequence of this decision, the complex was never used for its original purpose.

The architectural and climatic context

The building is located on the eastern fringe of the city of Ghardaïa, at approximately 400 km to the south of the capital, Algiers. The city is part of the M'zab valley group, which is on Unesco's World Heritage List. The valley includes five major cities: Ghardaïa, Beni Isguen, El Ateuf, Milika and Bou Noura, all splendid examples of Algerian vernacular architecture. Built at the top of natural hills and connected by palm groves along the river bed, they create an exceptional urban landscape which, to date, is well preserved.

The urban and architectural form of the M'zab cities has been very well studied and analysed by André Ravereau (*Le M'zab, une leçon d'architecture*), C. et P. Donnadiou and H. et J.M. Didillon (*Habiter le Desert, Les Maisons Mozabites*). The organic agglomeration of courtyard houses built along narrow streets and impasses produces a very dense urban architecture characterised by its

remarkable unity and homogeneity. The contrast between the built urban fabric dominated by the massive minaret and the green palm groves along the valley is striking.

Numerous new housing units have been built in recent years in close proximity to the cities and in the palm groves themselves. The new housing typologies, which differ from but do not oppose the traditional habitat, are an excellent example of urban continuity. The new constructions, which have developed rapidly all along the valley, represent a contemporary expression of traditional typologies, built by the people themselves, without the help of architects or technicians. They integrate with the existing fabric.

Climatic conditions are very harsh. Summers are very hot, which explains the small size of the inner courtyards and the thickness of the walls of the traditional houses. Sandstorms are common and impose specific protection.

The construction of a new building in Ghardaïa is a real challenge for an architect who has to respect the beauty and the unity of the existing architectural environment. Furthermore, the difficult conditions of the Algerian Sahara oblige the designer to address the climatic responses of traditional and contemporary architecture.

III. Description of the Project

The complex was conceived and designed as a Social Medical Centre, the sanitary unit of the CNAS. It was designed from Algiers by Miloud Boukhira, an architect and civil servant employed by the CNAS. The designer conceived the project from April 1981 to June 1982. Construction started in December 1982 and lasted seven years to completion in February 1987. During the construction of the complex, the Algerian government took the decision to suppress all social medical centres. The complex was then transformed to office space.

The site is very close to the traditional city, on its eastern fringe, near the river. The south-east façade faces onto one of the main streets. The site slopes considerably. The high part of the site has rock formations, and the lower part is crossed by a small river which was used as a sewer.

Medical and administrative functions were grouped in the lower part of the site, while the staff houses were located in the upper part of the site. The construction of the six houses required the use of explosives to clear the existing rock formations. The contractor had to protect existing houses near to the site. Construction of the administrative section of the complex involved the installation of a drainage system to control and stop the water flow and to suppress the previous sewer.

The building is divided into three different parts:

- The payment centre which is situated close to the entrance to permit easy access for the public. It contains a public hall with reception counter and some administrative offices.
- The medical centre is divided into two separate areas: one area for women and one area for men. Each of these areas forms one half of the symmetrical layout and contains waiting rooms, with administrative and medical offices. Technical and medical services (radiology, laboratories) are grouped together to the rear. These two sections are linked by the landscaped public entrance area.
- The six houses are for administrative or medical staff. The concept of the house type is traditional and rooms are grouped around an enclosed courtyard. The houses are located behind the complex, arranged to form a small public square (*une placette*).

A Domestic Scale

The architectural concept is clear: the architect wanted to give a unique, homogeneous image and aspect to the building. There is no distinct separation between the three areas of the complex. The functional components of the building are not expressed or distinguished. To the contrary, it seems that the architect did not want to give any public significance to the building, or to express any functional differences.

The architectural choice led the designer to use the aesthetic of indigenous, domestic constructions: the complex looks like a group of houses. Both the exterior and interior refer to traditional housing volumes: the complexity and multiplicity of volumes, and the complicated and picturesque treatment of the masses are part of the conventional vocabulary for housing. The arrangement of circulation and paths refer to an urban situation, and reflect the organic quality of the streets of the traditional city.

The Patios

The design of the complex implies courtyards of small size. Unfortunately, these outdoor rooms, which refer to a local Islamic tradition, do not give order to the project. The different spaces which surround these outdoor rooms are not open to them, which means that the visual relationship between the patios and the rest of the building is very poor. In this project the courtyard does not have a meaningful expression; it is a small outdoor room, a badly maintained "backyard". It is not used as an outdoor planted space.

One could question the lack of institutional significance in the architecture of the project and its semantic reduction to domestic scale. It is of course the choice made by the architect to integrate the complex as much as possible with the urban tissue and architecture of the traditional city. The architecture of the medical centre is an architecture of houses, in an effort to continue the unity of the city. This impression is reinforced by the fact that the different parts of the building are relatively closed and have very few openings or windows on façade.

This approach is common among Algerian architects and designers. It is radically opposed to the approach developed by the Algerian architect Bouchama, who always gave a monumental dimension to the public buildings he designed.

The architectural culture of the social medical centre of Ghardaïa belongs to the culture which was exposed by the group Team X in the late sixties in Europe. At this level, we must say that the approach adopted has the great advantage of being modest, simple and integrated with existing traditional structures.

Structure and Materials

The structure of the building is simple and uses two techniques common in Algeria:

- The traditional technique of loadbearing stone walls is used for the houses and parts of the centre.
- The modern technique of reinforced concrete structural frame is used for the parts which require large rooms and spatial flexibility (laboratories). The infill is of stone, concrete block or industrial brick.

Floors and terraces are of prefabricated concrete sections. Ceilings are finished with local plaster and façades are finished with traditional mortar - with natural colour finish.

The construction techniques used are common, contemporary techniques in Algeria. The architect had to respect seismic regulations, which explains the massive use of reinforced concrete for the primary structure. Local builders were employed.

The architect used traditional materials where possible: stone, plaster, mortar. In doing so he had to impose his choice on the engineers of the *Contrôle Technique de Construction* (CTC), a governmental body in charge of inspecting public buildings.

IV. Construction Schedule and Costs

Construction of the building took almost five years. This can be explained by the change in client, when the government decided to suppress the social medical centres and transform the use of the buildings. Total costs of the project was DZD 29'388'650 (USD 5'412'275) (USD = DZD 5.43 Algerian Dinars). Costs are higher than average for the region: DZD 6'916 (USD 1'273) per m² as compared with DZD 6'500 per m². The additional cost is due to the need to remove rock formations on the higher part of the site. The complex is not air-conditioned.

V. Technical Assessment

The present use of the building is different from the one which was planned (146 people use the building instead of 60). Partitions have been built to satisfy new functional requirements; halls have been transformed into storage rooms.

The buildings, if they refer to the local traditional architecture, offer informal outdoor public spaces. The complexity of the volume and mass gives a picturesque image to the complex, but offers poor outdoor spaces: a public entrance with no real form (badly designed), filled with trees, plants and ugly outdoor furniture. An empty, unused square and a peripheral left-over space (so-called "green" space) surround the complex. Luckily the enclosure wall creates a strong urban connection with the existing street pattern.

Maintenance of the building is poor and tends to give a "popular" aspect to the complex. The transformations have damaged the building and spoiled the original concept. The architect is not responsible for this situation.

It seems that the quality of the building is reduced to its external appearance, with clever, talented treatment of the mass and volume. It is certain that the physical integration of the social medical centre - continuity with the traditional urban fabric - is a success. The complex blends with its close environment such that it becomes almost anonymous. No one would remark the complex as a new structure, as it offers the collective aspect of the traditional urban architecture.

The integration of the project with the existing environment is the most positive aspect of the design. Unfortunately, the quality of the indoor spaces, the effect of the transformations, the poor maintenance, the "left over" feeling one gets when one penetrates the complex and walks through the so-called public outdoors spaces, are all negative aspects of the project.

VI. Persons Involved

Architect	Miloud Boukhira.
Client	Caisse Nationale d'Assurance Sociale et Accidents du Travail (C.N.A.S.A.T.).
Contractor	Mohamed Lahouadji.



The Aga Khan Award for Architecture

Social Medical Centre

Ghardaïa, Algeria

<i>Address</i>	Route de Laghouat Ghardaïa, Algeria
<i>Architect</i>	Miloud Boukhira Oran, Algeria
<i>Client</i>	Caisse National des Assurances Sociales et Accidents du Travail (CNASAT) Algiers, Algeria
<i>Consultants</i> - Civil and Structural Engineers	B.E.T. : SAFER Algiers, Algeria
<i>Contractor</i>	Mohamed Lahouadji Ghardaïa, Algeria
<i>Design</i>	April 81 - June 82
<i>Construction</i>	December 82 - February 87
<i>Occupancy</i>	February 87
<i>Site Area</i>	5'200 m ²
<i>Ground Floor</i>	2'834 m ²
<i>Total Floor</i>	4'249 m ²
<i>Costs</i> - Land	not available
- Global	29'388'650 DZD 5'412'275 USD
- Construction per m ²	not available
<i>Exchange</i>	USD = 5.43 DZD Algerian Dinars
<i>Programme</i>	Social Medical Centre - administration and payments block containing public hall, payment guichets, offices, records office - medical centre block containing administration, offices, patients waiting area, examination rooms, pharmacy - staff housing

1992 Award Cycle 1169.ALG



- mechanical plant
- parking
- landscaping

Project

The social medical centre at Ghardaïa consists of three distinct but functionally related elements: the medical centre which provides dental and general medical facilities as well as specialist programmes such as child and baby-care clinics; the administration and payments centre which provides offices for medical insurance payments; staff housing for necessary, trained personnel. The concept is to group the various aspects of medical treatment in one complex and with one management. Constructions had to conform to rigorous regulations concerning seismic movement. The programme for the medical centre was subject to various changes during the construction phase.

Site

Ghardaïa is approximately 400 km to the south of the capital, Algiers. Site

conditions posed numerous difficulties during both the planning and execution phases of the project: the high part of the site is rock-strewn and clearance of rocks involved the use of dynamite with the subsequent need to protect neighbouring houses; the low part of the site is bisected by an existing *wadi* and site preparation in this respect involved the installation of ground drainage channels - some structures required pile foundations; regulations concerning seismic movement dictated considerable amounts of steel reinforced with associated increases in construction costs. Other major site constraints included the desire to respect the architecture of existing indigenous constructions of Ghardaïa and the desire to adapt the buildings to the extremely hot climate without the resort to air-conditioning.

Description

The medical centre occupies the south of the site while, to the north, staff housing and the payments centre flank the main pedestrian axis. Each block

1. General view, with the town of Ghardaïa in the background

is designed to respond to its particular brief; however, the architecture of the complex is generated from the same source. The most important influence is the town of Ghardaïa, part of the M'zab Valley, which is UNESCO listed. Heavy stone walls, clusters of different, simple volumes, and minimal openings on façades are all in deference to both the historic context and the climate. Circulation and waiting areas are separate for men and women to allow Mozabite women the use of medical facilities without creating conflict with local culture and traditions. Internal courtyards permit light to penetrate the deep plan. The size of the modules which combine to create the internal layout is dictated by the structural capabilities of indigenous construction techniques and materials. Individual blocks are stepped in plan and in section to create the maximum amount of shade. The complex adopts an architectural vocabulary which emulates that of the town of Ghardaïa.

Construction

Reinforced concrete strip foundations or isolated footings dependent upon the construction material. Loadbearing stone walls or reinforced concrete structural frame. Façades are rendered with traditional mortar, left with natural colour finish. Flat roofs are of pre-fabricated concrete sections with a concrete screed and thermal insulation to conform with contemporary norms. The construction techniques used are traditional to the region; this in a deliberate attempt to employ local build-



2

ers and to minimise the need for skilled labour. Materials and the labour force were of local provenance.

Project Significance

The complex represents a sizable amount of construction which is well

integrated to the site context and well adapted to climatic constraints. The buildings offer significant new medical facilities for the local population.

2. *Openings on façade are minimal, in reaction to climatic constraints*

Building Type	421
1992 Award Cycle	1169.ALG



The Aga Khan Award for Architecture

DOSSIER DE L'ARCHITECTE

CONFIDENTIEL

I. IDENTIFICATION

Titre du projet Centre Médico-Social + Centre de paiement + LogementsAdresse Route de LaghouatLocalité GHARDAIA Code postal _____ Pays ALGERIE

Téléphone _____ Télécopie _____ Télex _____

II. PERSONNES RESPONSABLES

A. Architecte

Nom BOUKHIRA MiloudAdresse 34 Rue Mahmoud Benbassal - Cité ProtinLocalité ORAN Code postal _____ Pays ALGERIETéléphone 36.19.58 ou 35.68.30 Télécopie _____ Télex _____

B. Client/Maitre d'ouvrage

Nom Directeur Général de la CNASATAdresse Route de 2 bassins - Centre Familial BEN AKNOUNLocalité ALGER Code postal _____ Pays ALGERIETéléphone 79.25.11 / 79.26.03 Télécopie _____ Télex _____

C. Consultants (économiste, sociologue, démographe, ingénieur, etc.)

Nom Ingénieurs Génie-Civil B.E.T. : SAFERAdresse 19 Rue BurdeauLocalité ALGER Code postal _____ Pays ALGERIE

Téléphone _____ Télécopie _____ Télex _____

D. Entrepreneur/Artisan Principal

Nom LAHOUDJI MohamedAdresse EL ATTEUFLocalité GHARDAIA Code postal _____ Pays ALGERIETéléphone 89.03.06 Télécopie _____ Télex _____

Continuez au verso si nécessaire

1/6

III. UTILISATION

- A. Préciser le(s) type(s) d'utilisation ~~Structure Socio-sanitaire destinés aux assurés sociaux~~
- Soins, consultations, toutes spécialités, Radio, Analyses
- B. Usager(s) ou occupant(s) - Paiement des prestations, maladies, accidents, congés
- 6 logements d'accompagnement par le personnel.
1. Occupation/Profession _____
2. Echelle de revenu (veuillez cocher) _____ Elevé _____ Moyen _____ Bas _____ Mixte _____

C. Veuillez spécifier les modifications éventuelles entre l'utilisation prévue et l'utilisation actuelle:

Le centre de paiement a été maintenu intégralement dans sa fonction initiale tandis que le centre de soins a été modifié et utilisé comme siège Administratif pour le compte de la Direction des affaires sociales de la Wilaya.

IV. HISTORIQUE DU PROJET

(Veuillez spécifier exactement le mois et l'année)

- A. Conception: Commencement AVRIL 1981 Achèvement JUIN 1982
- B. Construction: Commencement DECEMBRE 1982 Achèvement FEVRIER 1987
- C. Date d'occupation du bâtiment FEVRIER 1987

V. BILAN ECONOMIQUE DE LA REALISATION

(Veuillez spécifier les montants, devises et date de transaction)

	Montant	Devise	Date
A. Budget initial total	<u>33.52.217,00</u>	<u>DA</u>	
B. Prix du terrain			
C. Répartition des coûts			
1. Infrastructure)			
2. Main-d'oeuvre)			
3. Matériaux (	<u>29.109.733,08</u>		
4. Aménagements extérieurs (			
5. Honoraires professionnels	<u>278.914,48</u>	<u>DA</u>	
6. Autres coûts			
D. Coût total (terrain non compris)	<u>29.388.647,56</u>	<u>DA</u>	
E. Prix par mètre carré	<u>6.916</u>	<u>DA/m2</u>	<u>(Plus value pour terrassement terrain rocheux).</u>
F. Estimation comparative des coûts	<u>6.500</u>	<u>DA/m2</u>	<u>(Sud Algérien).</u>

Veuillez indiquer le rapport du coût de la réalisation au coût moyen de la construction dans le pays, et cocher une des rubriques:

_____ faible _____ moyen _____ élevé

G. Sources de financement

1. Veuillez indiquer le pourcentage des fonds provenant de:

_____ sources privées _____ sources publiques 100 %

2. Si les fonds sont de sources publiques, quel pourcentage de fonds:

_____ locaux _____ nationaux 100 % _____ internationaux

Continuez au verso si nécessaire

2/6

VI. DONNEES DE LA CONSTRUCTION

A. Superficie du site et surface construite (indiquer en mètres carrés s.v.p.)

1. Superficie totale du site 5200 m² m²
2. Superficie totale au sol 2833,58 m² m²
3. Superficie totale du plancher 4249 m² m²
(sous-sols, rez-de-chaussée et étages)

B. Techniques de construction

Veillez décrire la structure et les méthodes de base utilisées pour la construction. Pour les projets de restauration, veuillez décrire les techniques utilisées de la conservation des structures originales.

Les techniques employés sont à la portée d'une Entreprise moyenne disponible dans la région. Il n'a été fait appel à aucune technologie nécessitant un apport en matériel sophistiqué, ou une main d'oeuvre très qualifiée. Tous les matériaux utilisés sont locaux.

- Coffrage en bois pour la structure en B.A

C. Matériaux

(décrivez-les et spécifiez s'ils sont de provenance locale ou importée)

1. Fondations
 - Gros béton pour les murs en pierres porteurs
 - Semelles isolées en B.A pour poteaux.
2. Eléments structurels principaux
 - Murs porteurs en pierres +
 - Structure mixte en béton armé (voile - poteaux - poutres)
3. Remplissage
 - Pierres de taille
 - Parping creux fabriqué sur site
4. Revêtement(s) des façades ou traitement(s) extérieur(s)
 - Enduit à base de sable et chaux
 - à l'aide de branchettes de dattier, on fouette les murs qui sont au préalable dressés.
5. Planchers/sols
 - Corps creux en hourdies à Ghardaia
6. Plafonds
 - Enduit au plâtre fabriqué à Ghardaia
7. Toiture/couverture
 - Toitures plates - plancher semi-préfabriqué + isolation thermique + étanchéité + protection en gravier
8. Autres (intérieurs et extérieurs, veuillez spécifier)
 - Moucharabeh fabriqué sur place
 - Aucune peinture appliquée sur murs extérieurs. Teinte naturelle du sable.

D. Type de main-d'oeuvre (indiquez les chiffres en pourcentage)

50 % spécialisée 50 % non spécialisée

E. Provenance de la main-d'oeuvre (pourcentage)

100 % ~~indigènes~~ local : / autre (veuillez spécifier)

VII. CARACTERISTIQUES GEOGRAPHIQUES ET CLIMATIQUES

Veillez décrire les caractéristiques géographiques et climatiques du lieu en précisant dans quelle mesure celles-ci ont été prises en considération dans la conception du projet.

- Climat saharien, adaptation de technique ancienne pour micro-climat
- Murs épais en pierres
- Réducteur et orientation des ouvertures
- Favoriser les zones d'ombre sur façade - (décrochements)
- Aération par patio, ruelles intérieures protégées
- Textures des façades

VIII. EVOLUTION DU PROJET

Veillez décrire la genèse du projet depuis l'élaboration de son programme, sa conception et mise en forme, sa construction jusqu'à son achèvement et son occupation actuelle.

- Programme initial - Centre médico social + Centre de paiement + logement d'accompagnement.
- 2 activités indépendantes mais complémentaires

CONTRAINTES 1 : Site : Une partie haute du terrain est rocheuse = emploi de la dynamite --- protection des maisons limitrophes.

Une partie basse traversée par un Oued N.S --- bâtiment sur pilotis + dérivation des eaux de l'Oued dans un caniveau en infrastructure.

CONTRAINTES 2 : Difficultés d'approbation des plans B.A par le bureau contrôle C.T.C (Règlement parasismique rigide et provoque des surcoûts)

CONTRAINTES 3 : Changement du Maître d'ouvrage en MAI 85 - Retard dans la réalisation et paiement des situations.

CONTRAINTES 4 : A l'achèvement de l'opération, le Maître de l'ouvrage a annulé les activités du centre médico-social qui a été affecté aux services administratifs de la Direction des Affaires Sociales.

- Modification des halls d'accueil - salles d'attentes - services techniques, mais l'ensemble extérieur a été respecté en général conformément aux plans initiaux.
- Le centre de paiement n'a subi aucune modification.
- Les logements ont été réalisés convenablement.

IX. IMPORTANCE DU PROJET

A votre avis, quelle est la principale signification du projet ? Veuillez décrire les aspects du projet qui vous paraissent particulièrement aboutis, par exemple d'un point de vue technique, économique et social, ou de son intégration dans le contexte culturel, climatique, etc. ?

1 - INTEGRATION :

L'aspect le plus important et abouti repose sur l'intégration du Projet à la ville ancienne de Ghardaia.

L'intégration sur un site classé "Monument et patrimoine culturel Universel" exige une volonté de s'accrocher, de se fondre, de s'adapter, de voisiner avec un environnement en équilibre et en harmonie avec la nature et la société.

2 - ADAPTATION AU TERRAIN :

La continuité de la ville vers les limites EST - suivre les pentes du terrain - contrôler le cours de l'Oued N.S en canalisant les eaux de crue.

3- ASPECT SOCIAL :

Permettre à la femme Mozabite exclue de la vie publique, à fréquenter le C.M.S sans interdit. Les accès, les circulations, les salles d'attente accueil, réservés aux femmes ne croisent ou ne se mélangent aux espaces des hommes.

4 - ASPECT CLIMATIQUE :

Recherche de matériaux, de techniques employés dans la tradition pour s'adapter au climat.

5 - ASPECT FONCTIONNEL :

Regrouper le + CP + Logements dans un même site tout en favorisant les accès, les fourches propres à chaque ensemble

6 - ASPECT ARCHITECTURAL :

Recherché d'un langage architectural inspiré du patrimoine local
Respect de l'échelle de la ville - des signes

7 - ASPECT TECHNIQUE :

Emploi de structure mixte dû à la contrainte des portées (6 x 6 m)
Murs en pierres porteurs traditionnels.

X. DOCUMENTATION REQUISE

- A. Les pièces demandées ci-dessous constituent le minimum requis pour la constitution d'un dossier de présentation. Ce dernier est assemblé par les soins de notre bureau pour être présenté au Jury. Les dossiers feront partie des archives permanentes du Prix qui seront mises à la disposition du public.

Tous les documents doivent être clairement identifiés et ne devront ni être reliés ni collés. Les photos et les diapositives devront être accompagnées d'une liste des descriptions de chacune des images, ainsi que le nom des photographes et la date de la prise de vue.

1. Carte de situation indiquant clairement la position du projet dans la ville, le quartier, le voisinage ou le site.
2. Dix (10) photographies; de préférence et au maximum de format A4 (18 x 24 centimètres).
3. Vingt (20) diapositives; 24 x 36 millimètres.
4. Plans de référence, au maximum de format A3 (29,7 x 42 centimètres).
Plan de situation, plan de toiture, plan masse;
Plans de chaque niveau;
Façades;
Coupe.
5. Curriculum vitae, ou brochure de la compagnie.

- B. Toute documentation supplémentaire est la bienvenue; spécifiez-en chacune des pièces soumises.

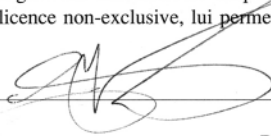
- Une partie des documents ont été expédiés par le Nominateur
- Pièces complémentaires ci-joint

- C. Veuillez indiquer toutes autres sources d'informations relatives au projet, par ex: publications, contacts, etc.

- Le projet a été présenté au concours National d'Architecture et d'Urbanisme pour l'année 1990.
- 1^{er} PRIX - Meilleure réalisation décennie 80 - 90

Veuillez noter que la soumission de ce dossier est une condition préalable pour se présenter comme candidat au Prix. Toutes les informations contenues dans le dossier seront gardées strictement confidentielles jusqu'à l'attribution du prix. Les documents constituant le dossier pourront, par la suite, être mis à disposition par le Prix Aga Khan d'Architecture auquel vous concédez par la présente, pour la durée légale du droit d'auteur (et de tous droits connexes), une licence non-exclusive, lui permettant de reproduire ces documents ou d'en autoriser la reproduction partout dans le monde.

Signature _____



Nom (en caractère d'imprimerie) _____ **BOUKHIRA Miloud**

Date _____ **10 / 05 / 91**

Tout matériel doit être envoyé à l'adresse suivante:

Le Prix Aga Khan d'Architecture

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32, chemin des Crêts-de-Pregny
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Genève, Suisse

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Télex 415 418 AKAA CH



Le Prix Aga Khan d'Architecture

32, Crêts-de-Pregny, 1218 Grand-Saconnex, Genève, Suisse, Téléphone (22) 798 90 70, Télécopie (22) 798 93 91

FORMULAIRE DE NOMINATION

CONFIDENTIEL

I. IDENTIFICATION DU PROJET

A. Titre du projet Centre Médico-Social + Centre de Paiement + 6 logements d'accompagnement.UTILISATION ACTUELLE : Siège de la CNASAT (Affaires Sociales) + Centre deAdresse Route de Laghouat paiement + Logements.Localité Ghardaïa Code postal _____ Pays ALGERIEB. Date d'achèvement Février 1987C. Architecte Monsieur BOUKHTRA MiloudAdresse 34, Rue Mohamed BENBASSAL - Cité ProtinLocalité ORAN Code postal _____ Pays ALGERIETéléphone 06/39.68.30-39.19.58 Télécopie / Télex _____D. Client/Maitre d'ouvrage Agence CNASAT (Caisse Nationale des Assurances Sociales & Accidents du Travail)Adresse Route de LaghouatLocalité Ghardaïa Code postal _____ Pays ALGERIE

Téléphone _____ Télécopie _____ Télex _____

II. DESCRIPTION DU PROJET

Veuillez s.v.p. décrire brièvement le projet.

Le programme se compose d'un centre médico-social regroupant les services d'accueil-le service des consultations-médecine générale et des spécialités (dentiste - ORL - OPHI - gynécologie- etc...) - un service de P.M.I. (protection maternelle et infantile).

Le centre de paiement assure les prestations sociales fonctionnant indépendamment de C.M.S. mais profite de tous les moyens de gestion en commun.

Les logements intégrés de l'ensemble sont destinés aux chefs de services (présence indispensable sur site).

La recherche de l'ombre, de la fraîcheur se traduit d'abord par les ruelles intérieures du projet (tantôt ouvertes, tantôt couvertes) puis par des patios et la disposition des volumes en retrait - en décrochement.

- Ouvertures réduites pour atténuer la luminosité.

- Murs porteurs en pierre pour les logements.

- Structure mixte pour l'ensemble - emploi de la pierre - de la maçonnerie en parpaing - de chaînage en B.A.

Application des enduits traditionnels à base de chaux et sable qui nécessite toute une technique de préparation et de mise en oeuvre. Texture granulée obtenue en projetant du mortier liquide à l'aide de branchette de dattiers.

(continuez au verso)

III. CRITÈRES DE NOMINATION

Veuillez s.v.p. indiquer l'importance du projet et les raisons de sa nomination.

Les raisons de nominations de ce projet sont les suivantes :

- 1 - Intégration architecturale parfaite dans un ensemble urbanistique très difficile à appréhender de par les multiples dimensions, tant du point de vue technique que climatique et traditionnel. La vallée du M'Zab étant connue universellement par ce qu'elle véhicule comme richesse architecturale et comme traditions sociales ancestrales.*
- 2 - Utilisation des matériaux locaux.*
- 3 - Le projet a reçu le 1er Prix d'Architecture en Algérie de la décennie 1980-1990 décerné par Mr le Ministre de l'Équipement.*

IV. INFORMATIONS SUPPLÉMENTAIRES

Il serait souhaitable de joindre des documents supplémentaires, notamment diapositives, photographies et plans ainsi que d'indiquer toute autre source d'informations sur le projet (bibliographie, etc.).

Ci-joint, quelques diapositives.

Nom (en imprimé) ..

Date 12/12/1990

Signature ..



General view, with the town of Ghardaia in the background



Detail. Facades are rendered with traditional mortar



Walls are smooth rendered, or of natural stone



Walls are smooth rendered, or of natural stone



Openings on facade are minimal, in reaction to climatic constraints

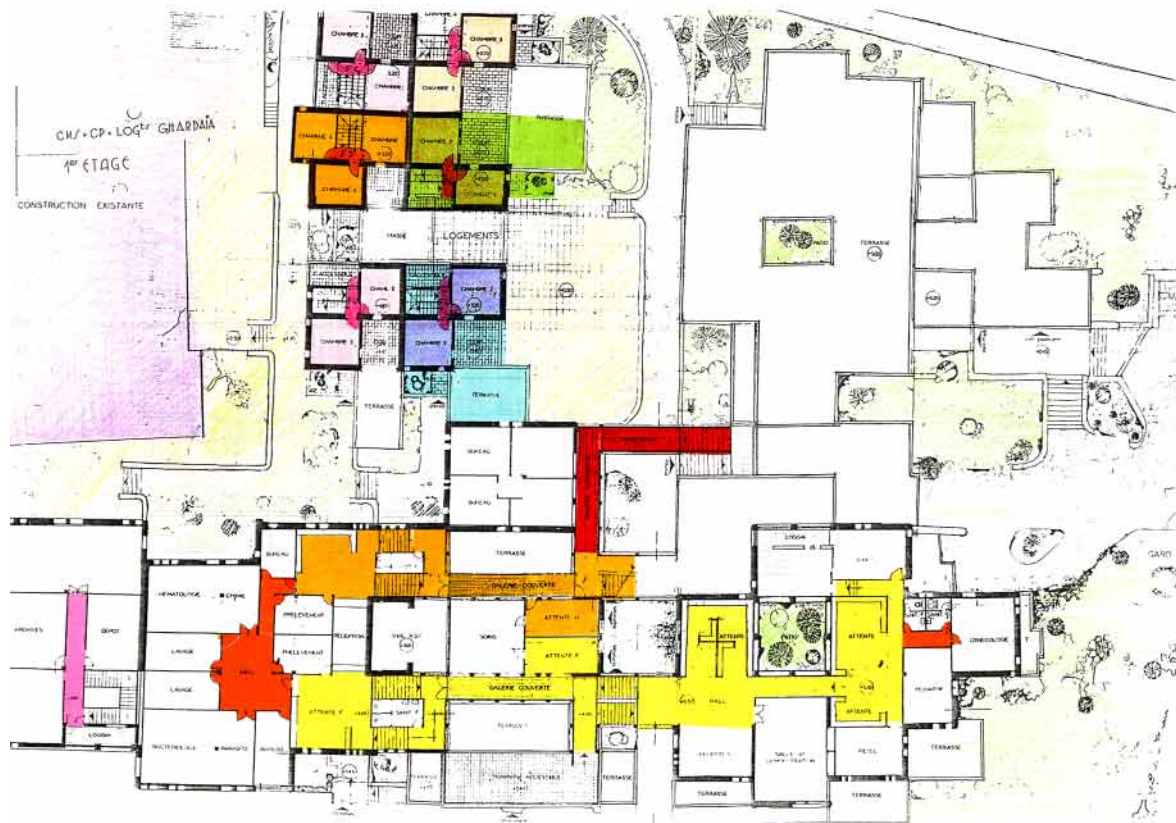




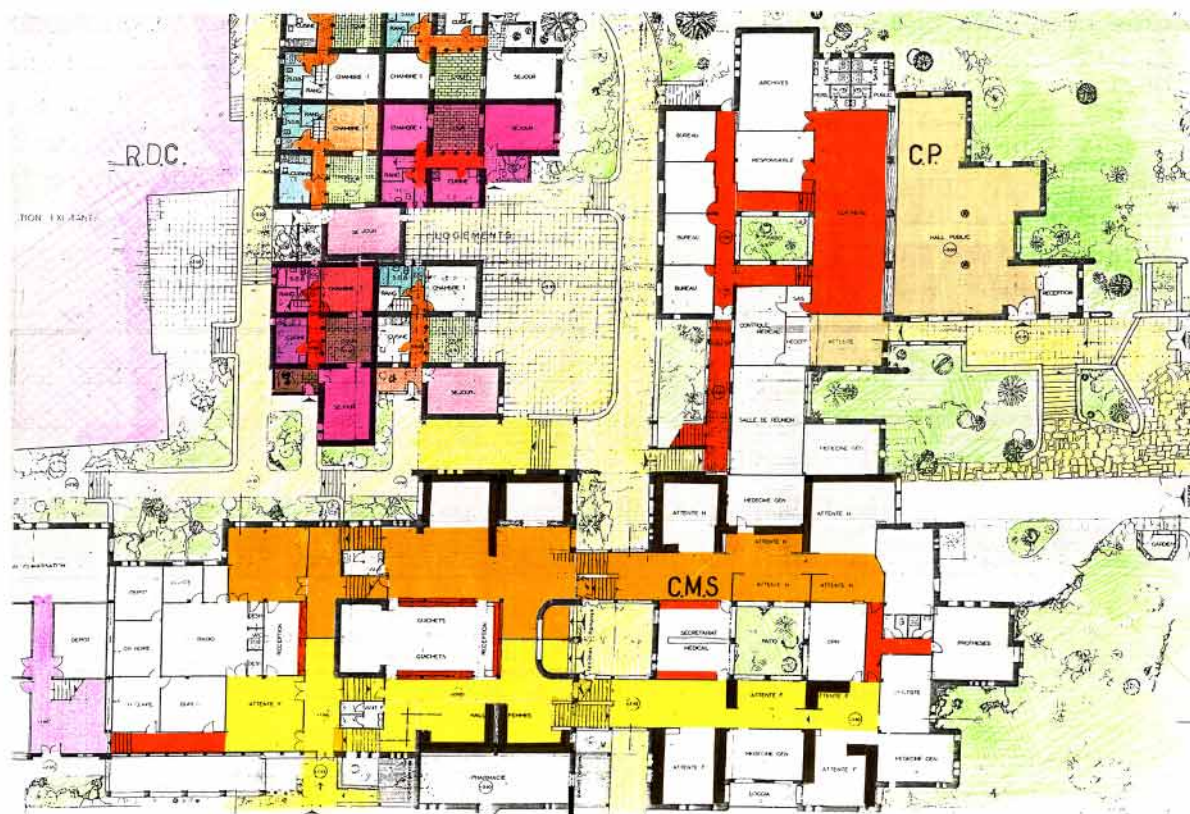
Openings on faade are minimal, in reaction to climatic constraints



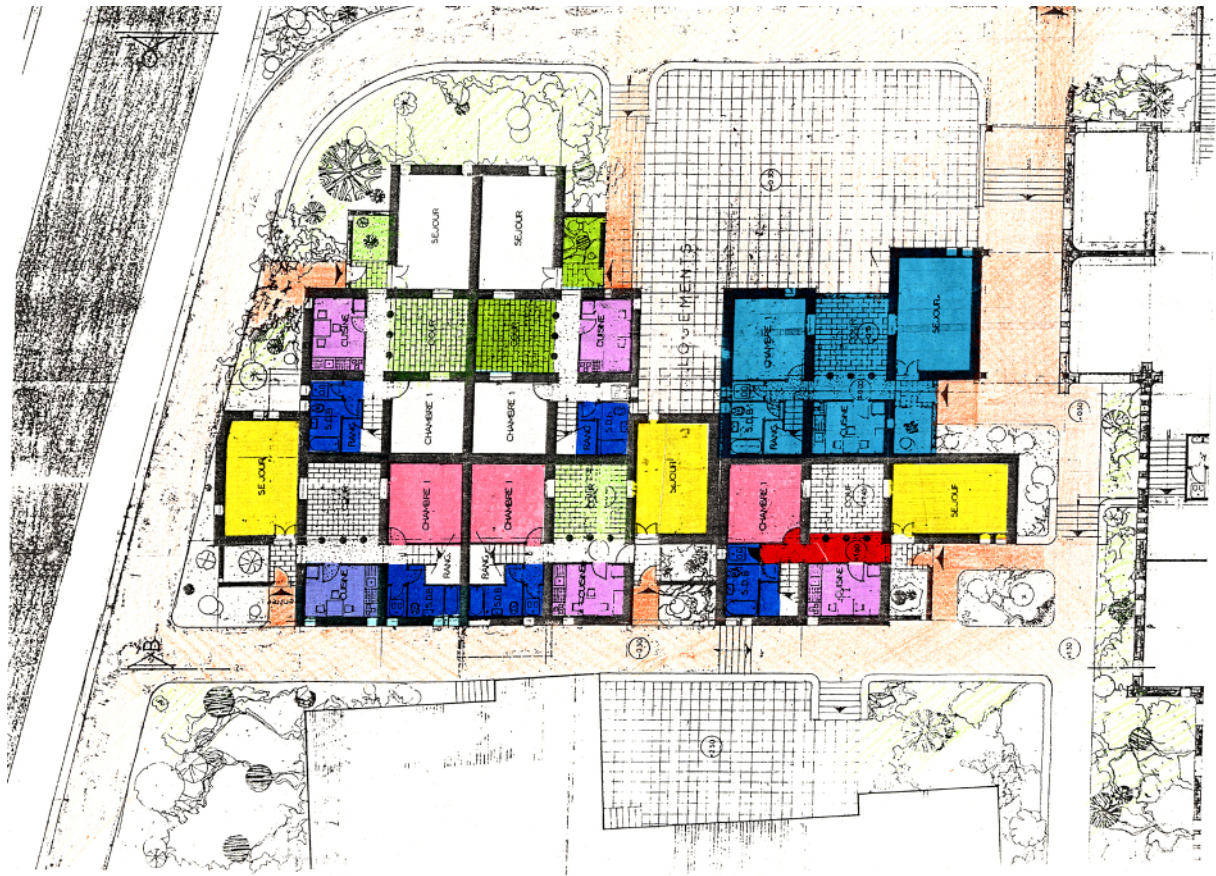
View of design model



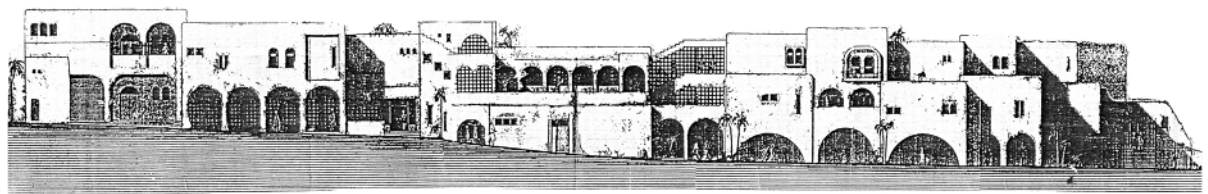
First floor plan



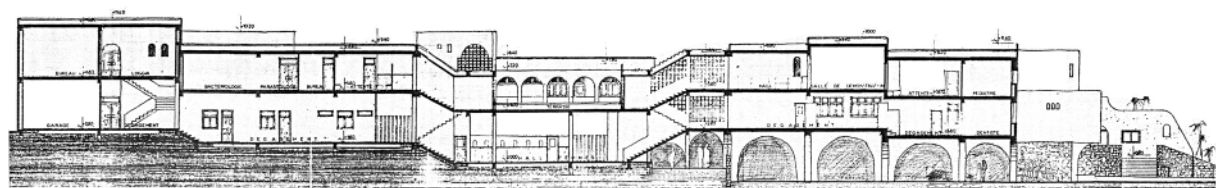
Ground floor plan



Housing, typical floor plan

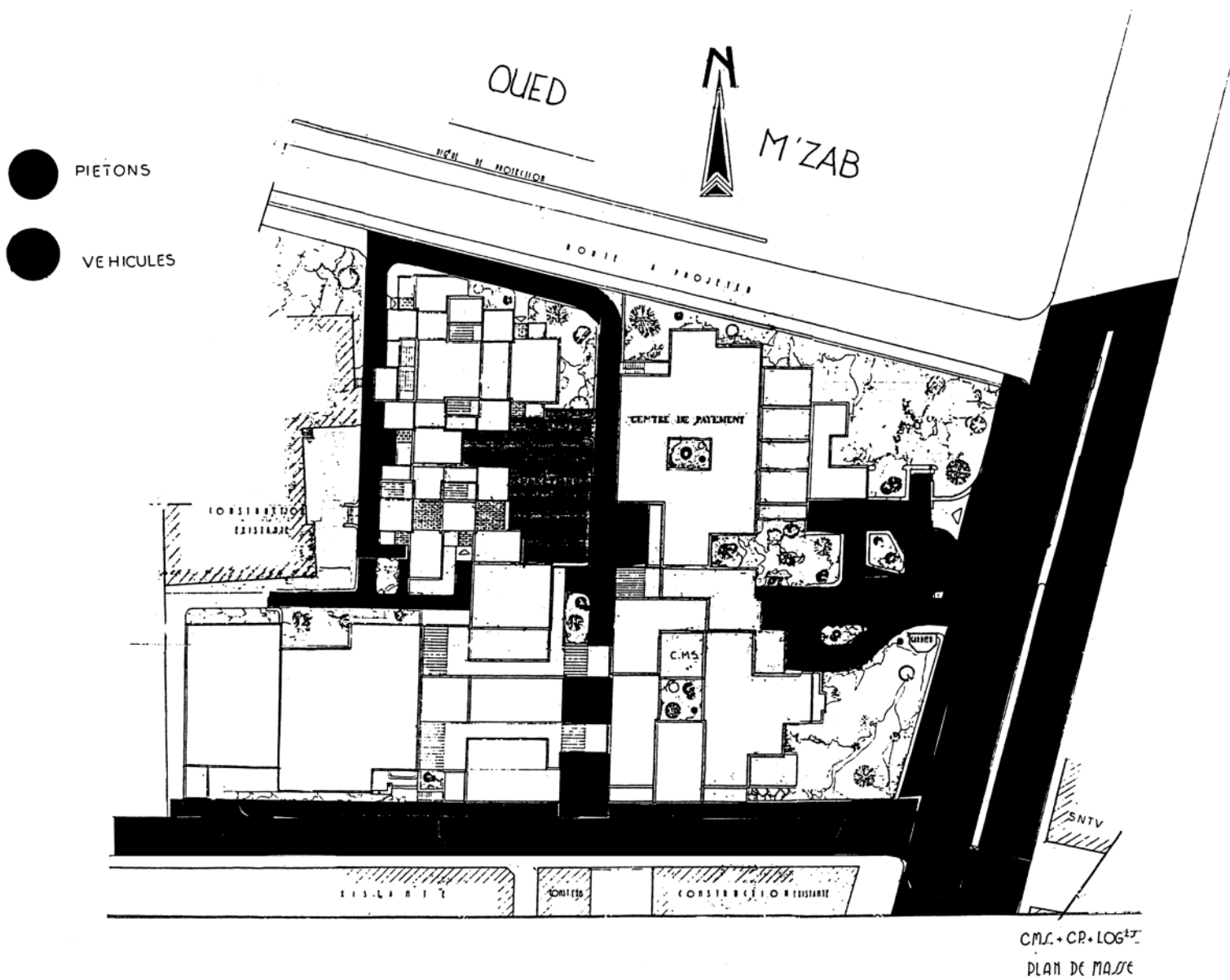


FASADE OUEST

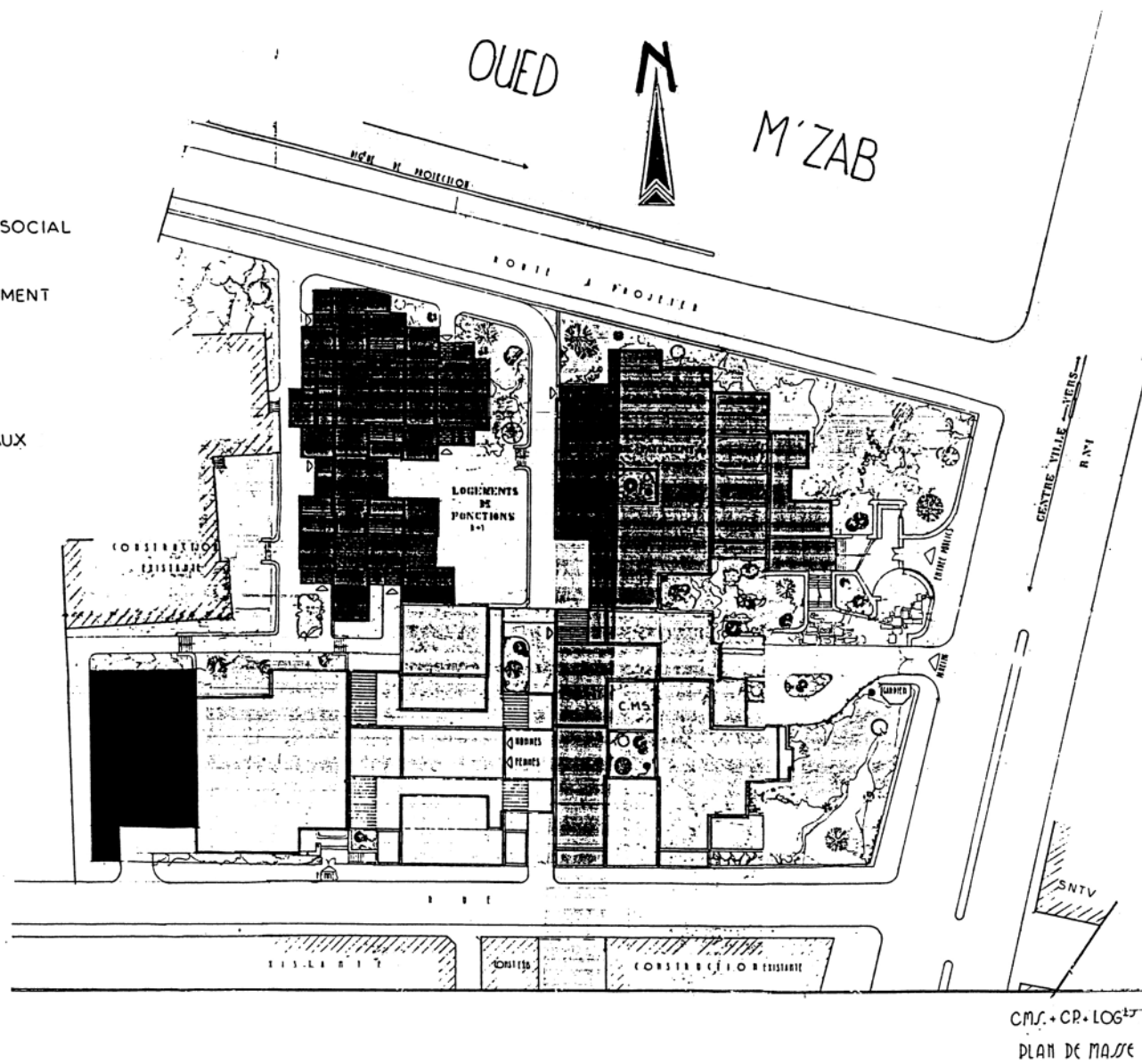


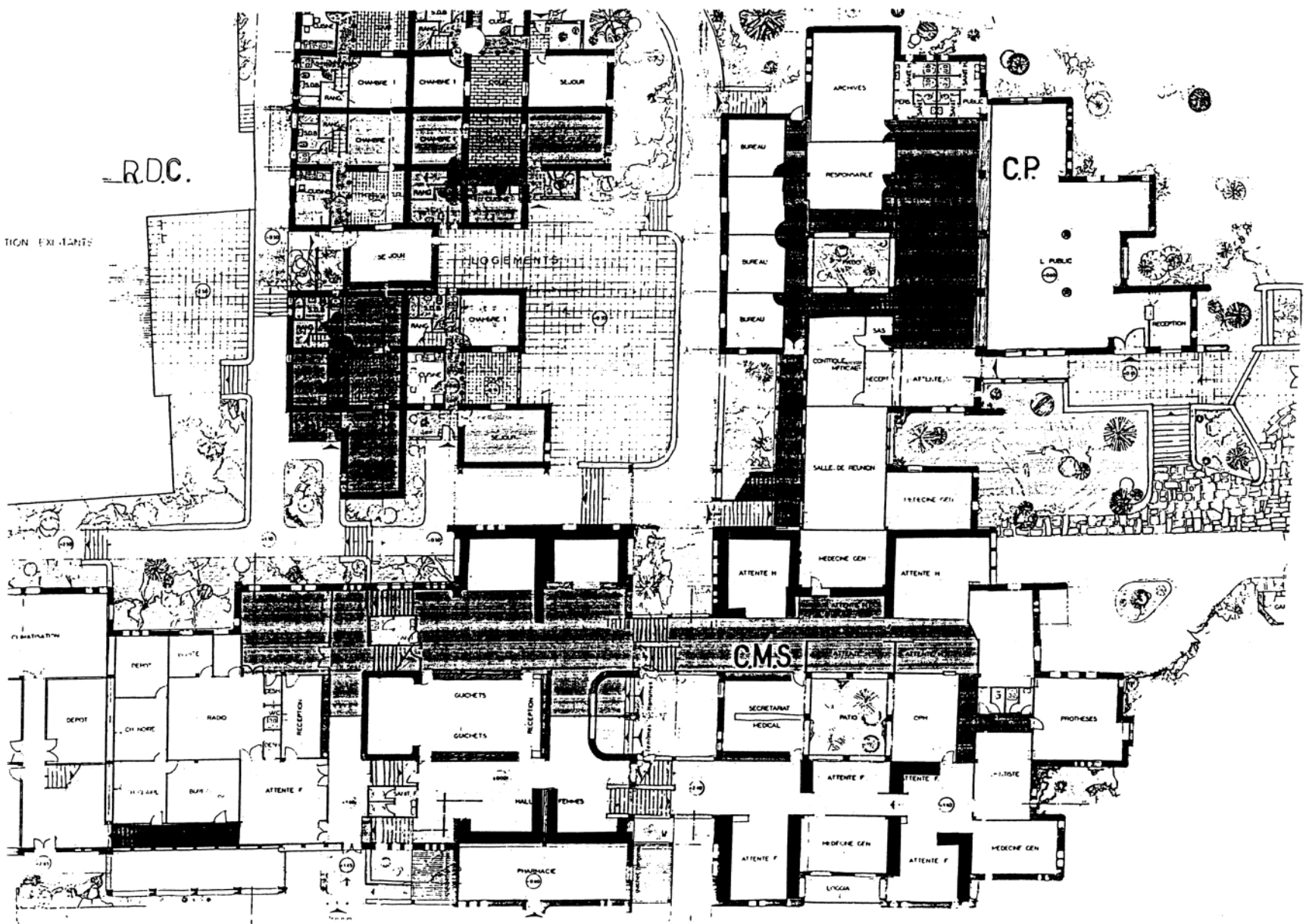
COUPE AA

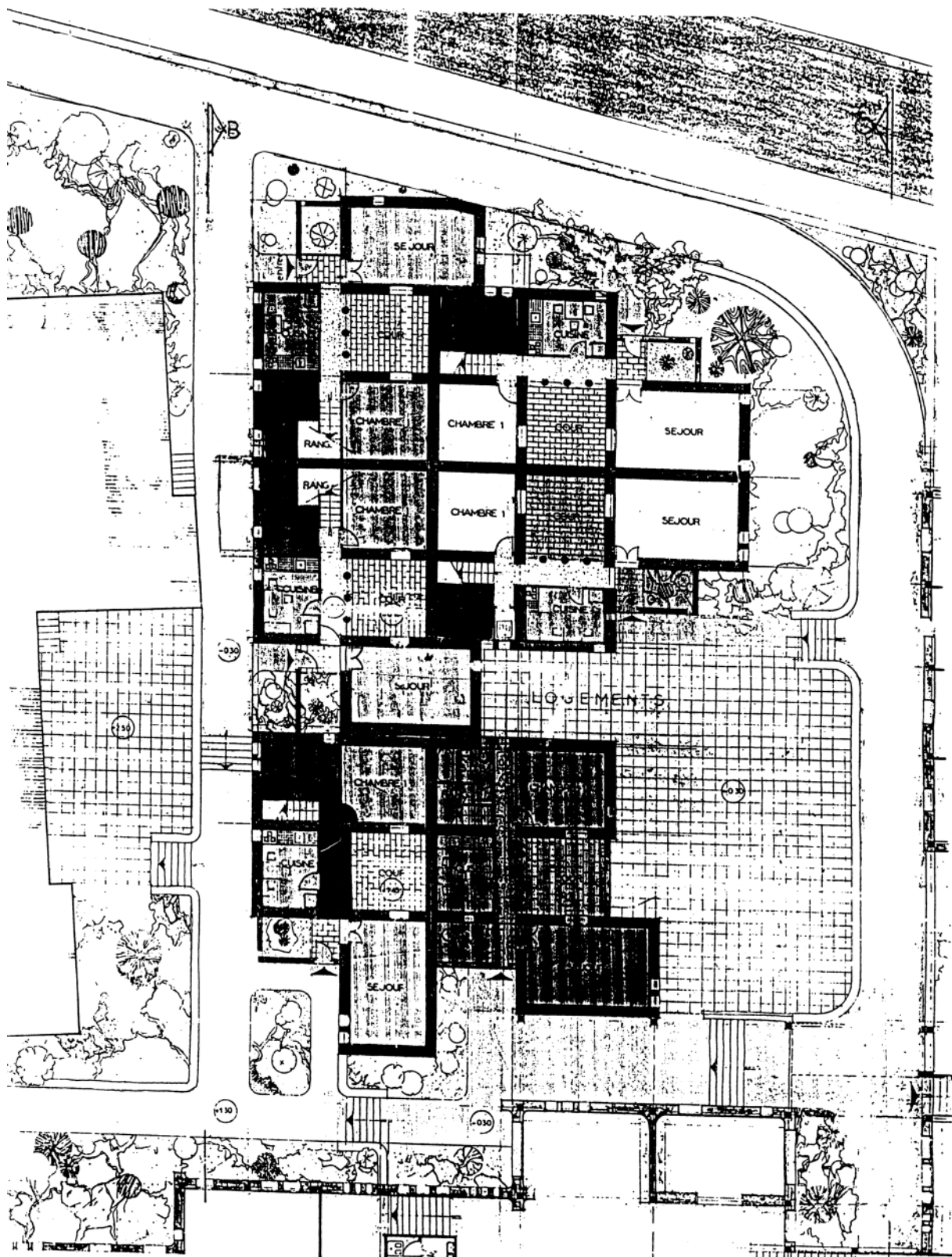
Section A-A and West elevation



-  CENTRE MEDICO.SOCIAL
-  CENTRE DE PAIEMENT
-  LOGEMENTS
-  MOYENS GENERAUX
-  OUED







Social Medical Centre
Ghardaia, Algeria

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Date: 10.05.1991
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1169 Social Medical Centre



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Social Medical Centre
Ghardaia, Algeria



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Social Medical Centre
Ghardaia, Algeria



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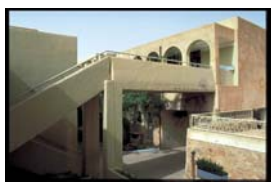
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Social Medical Centre
Ghardaia, Algeria



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Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

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Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

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99	S069606				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
100	S069607				12.05.1992	GHELLATI Mohamed Ali	24x36	Y

Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

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107	S069614				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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111	S069618				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
112	S069619				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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115	S069622				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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119	S069626				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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148	S069655				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

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193	S069700				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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195	S069702				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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197	S069704				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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199	S069706				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
200	S069707				12.05.1992	GHELLATI Mohamed Ali	24x36	Y

Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

No	VM Num	CD Id	IMG Ord	VM Title	Date	Photographer	Format	Copyright
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Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

No	VM Num	CD Id	IMG Ord	VM Title	Date	Photographer	Format	Copyright
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299	S069805				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
300	S069806				12.05.1992	GHELLATI Mohamed Ali	24x36	Y

Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

No	VM Num	CD Id	IMG Ord	VM Title	Date	Photographer	Format	Copyright
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306	S069812				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

No	VM Num	CD Id	IMG Ord	VM Title	Date	Photographer	Format	Copyright
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353	S069859				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
354	S069860	CD00001	IMG0066		12.05.1992	GHELLATI Mohamed Ali	24x36	Y
355	S069860	CT00010	IMG0022		12.05.1992	GHELLATI Mohamed Ali	24x36	Y
356	S069861				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
357	S069862				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
358	S069863				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
359	S069864				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
360	S069865				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
361	S069866				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
362	S069867				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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364	S069869				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
365	S069870				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
366	S069871				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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368	S069872	CT00010	IMG0024		12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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372	S069876				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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374	S069878				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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384	S069888				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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386	S069890				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
387	S069891				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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389	S069893				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
390	S069894				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
391	S069895				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
392	S069896				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
393	S069897				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
394	S069898				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
395	S069899				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
396	S069900				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
397	S069901				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
398	S069902				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
399	S069903				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
400	S069904				12.05.1992	GHELLATI Mohamed Ali	24x36	Y

Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

No	VM Num	CD Id	IMG Ord	VM Title	Date	Photographer	Format	Copyright
401	S069905				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
402	S069906				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
403	S069907				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
404	S069908				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
405	S069909				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
406	S069910				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
407	S069911				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
408	S069912				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
409	S069913				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
410	S069914	CD00001	IMG0074		12.05.1992	GHELLATI Mohamed Ali	24x36	Y
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412	S069915				12.05.1992	GHELLATI Mohamed Ali	24x36	Y
413	S069916				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
414	S069917				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
415	S069918				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
416	S069919				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
417	S069920				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
418	S069921				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
419	S069922				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
420	S069923				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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422	S069925				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
423	S069926				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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434	S069937				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
435	S069938				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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437	S069940				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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440	S069943				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
441	S069944				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
442	S069945				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
443	S069946				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
444	S069947				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
445	S069948				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
446	S069949				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
447	S069950				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
448	S069951				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
449	S069952				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
450	S069953				12.05.1992	GHELLATI Mohamed Ali	6x6	Y

Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

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451	S069954				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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455	S069958				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
456	S069959				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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459	S069962				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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462	S069965				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
463	S069966				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
464	S069967				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
465	S069968				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
466	S069969				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
467	S069970				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
468	S069971				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
469	S069972				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
470	S069973				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
471	S069974				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
472	S069975				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
473	S069976				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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477	S069980				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
478	S069981				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
479	S069982				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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481	S069984				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
482	S069985				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
483	S069986				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
484	S069987				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
485	S069988				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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493	S069996				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
494	S069997				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
495	S069998				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
496	S069999				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
497	S070000				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
498	S070001				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
499	S070002				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
500	S070003				12.05.1992	GHELLATI Mohamed Ali	6x6	Y

Social Medical Centre
Ghardaia, Algeria

List of Visual Materials

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503	S070006				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
504	S070007				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
505	S070008				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
506	S070009				12.05.1992	GHELLATI Mohamed Ali	6x6	Y
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508	S077635				15.06.1992	AKAA	24x36	Y
509	S077636	CD00001	IMG0065		15.06.1992	AKAA	24x36	Y
510	S077637	CD00001	IMG0073		15.06.1992	AKAA	24x36	Y
511	S077637	CT00010	IMG0021		15.06.1992	AKAA	24x36	Y
512	S077638	CD00001	IMG0069		15.06.1992	AKAA	24x36	Y
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514	S079817				23.06.1992	Courtesy of SANTELLI	24x36	Y
515	S079818				23.06.1992	Courtesy of SANTELLI	24x36	Y
516	S079819				23.06.1992	Courtesy of SANTELLI	24x36	Y
517	S079820				23.06.1992	Courtesy of SANTELLI	24x36	Y
518	S079821				23.06.1992	Courtesy of SANTELLI	24x36	Y
519	S079822				23.06.1992	Courtesy of SANTELLI	24x36	Y
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521	S079824				23.06.1992	Courtesy of SANTELLI	24x36	Y
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523	S079825	CT00010	IMG0030		23.06.1992	Courtesy of SANTELLI	24x36	Y
524	S079826				23.06.1992	Courtesy of SANTELLI	24x36	Y
525	S079827				23.06.1992	Courtesy of SANTELLI	24x36	Y
526	S079828				23.06.1992	Courtesy of SANTELLI	24x36	Y
527	S079829				23.06.1992	Courtesy of SANTELLI	24x36	Y
528	S079830				23.06.1992	Courtesy of SANTELLI	24x36	Y
529	S079831	CD00001	IMG0084		23.06.1992	Courtesy of SANTELLI	24x36	Y
530	S079832	CD00001	IMG0096		23.06.1992	Courtesy of SANTELLI	24x36	Y
531	S079833				23.06.1992	Courtesy of SANTELLI	24x36	Y
532	S079834				23.06.1992	Courtesy of SANTELLI	24x36	Y
533	S079835				23.06.1992	Courtesy of SANTELLI	24x36	Y
534	S079836	CD00001	IMG0068		23.06.1992	Courtesy of SANTELLI	24x36	Y
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536	S079837				23.06.1992	Courtesy of SANTELLI	24x36	Y
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538	S079839				23.06.1992	Courtesy of SANTELLI	24x36	Y
539	S079840				23.06.1992	Courtesy of SANTELLI	24x36	Y
540	S079841				23.06.1992	Courtesy of SANTELLI	24x36	Y
541	S079842				23.06.1992	Courtesy of SANTELLI	24x36	Y
542	S079843				23.06.1992	Courtesy of SANTELLI	24x36	Y

SOCIAL MEDICAL CENTRE
Algeria, Ghardaia

13 November 1991

VISUAL MATERIAL CONTENTS

Inventory by Photographer or Source \ Type \ Format \ Number Sequences
Inventory by Photographer or Source \ Type \ Format \ Quantity
Inventory by Type \ Format \ Quantity
Project Descriptors List
Inventory by Type \ Number Sequences \ Descriptors
Inventory by Descriptors \ Quantity

P. Nbr: P001169

P. Title: Social Medical Centre

Arch.: BOUKHIRA Miloud

Country : ALG/Algeria

City : Gh /Ghardaia

Page 1

INVENTORY - NUMBER SEQUENCES

Photographer / Source	Type	Format	From	To	Total of
1 Courtesy of Architect	Drawing(s)	A3	D002087	D002093	7
	Print(s)	10x15	R004140	R004144	5
		17x25	R004134	R004138	5
		18x24	R004128	R004133	6
		29x40	R004139	R004139	1
	Slide(s)	24x36	S058097	S058123	27
2 Courtesy of Nominator	Slide(s)	24x36	S058124	S058131	8
3 AKA A Reproduction	Print(s)	13x18	R004145	R004150	6
			R004152	R004155	4

INVENTORY - SOURCE / FORMAT

Photographer / Source	Type	Format	Total of
1 Courtesy of Architect	Drawing(s)	A3	7
	Print(s)	10x15	5
		17x25	5
		18x24	6
		29x40	1
	Slide(s)	24x36	27
2 Courtesy of Nominator	Slide(s)	24x36	8
3 AKA A Reproduction	Print(s)	13x18	10

INVENTORY - FORMAT

Type	Format	Total of
Drawing(s)	A3	7
Print(s)	10x15	5
	13x18	10
	17x25	5

(continued)

P. Nbr: P001169 P. Title: Social Medical Centre Arch.: BOUKHIRA Miloud
Country : ALG/Algeria
City : Gh /Ghardaia Page 2

INVENTORY - FORMAT

Type	Format	Total of
Print(s)	18x24	6
	29x40	1
Slide(s)	24x36	35

End of inventory

P. Nbr: P001169 P. Title: Social Medical Centre Arch.: BOUKHIRA Miloud
Country : ALG/Algeria
City : Gh /Ghardaia

Page 1

PROJECT VM SCRIPTORS

01	Exterior	11	21
02	Interior	12	22
03	Model	13	23
04	Plan	14	24
05	Site	15	25
06	Ground floor	16	26
07	First floor	17	27
08	Apartments	18	28
09	Elevation	19	29
10	Section	20	30

Descriptors are simple terms selected to identify and distinguish specific aspects of the particular project and which permit differentiation of project visual material.
Terms used have no particular hierarchy, nor are they based on any thesaurus or classification system.

P. Nbr: P001169

P. Title: Social Medical Centre

Arch.: BOUKHIRA Miloud

Country : ALG/Algeria

City : Gh /Ghardaia

Page 1

INVENTORY - NUMBER SEQUENCES / DESCRIPTORS

Drawing(s)

From To

Descriptors

D002087 D002088 Plan / Site

D002090 D002090 Plan / Ground floor

D002091 D002091 Plan / First floor

D002092 D002092 Plan / Apartments

D002093 D002093 Elevation / Section

Print(s)

From To

Descriptors

R004128 R004138 Exterior

R004140 R004141 Exterior

R004142 R004142 Interior

R004143 R004145 Exterior

R004153 R004153 Interior

R004154 R004154 Model

R004155 R004155 Exterior

Slide(s)

From To

Descriptors

S058097 S058099 Exterior

S058100 S058100 Model

S058101 S058114 Exterior

S058115 S058115 Interior

S058116 S058128 Exterior

S058129 S058131 Model

End of inventory

P. Nbr: P001169 P. Title: Social Medical Centre Arch.: BOUKHIRA Miloud
 Country : ALG/Algeria
 City : Gh /Ghardaia Page 1

INVENTORY - DESCRIPTIONS

Drawing(s) Description	Total of
Plan / Site	2
Plan / Ground floor	1
Plan / First floor	1
Plan / Apartments	1
Elevation / Section	1

Print(s) Description	Total of
Exterior	17
Interior	2
Model	1

Slide(s) Description	Total of
Exterior	30
Interior	1
Model	4

End of inventory

P. Nbr: P001169 P. Title: Social Medical Centre Arch.: BOUKHIRA Miloud
 Country : ALG/Algeria
 City : Gh /Ghardaïa Page 1

Captions of Green File Visual Material

D002087	Site plan
D002088	Site plan, showing circulation pattern
D002090	Ground floor plan
D002091	First floor plan
D002092	Housing, typical floor plan
D002093	Section A-A and West elevation
R004146	Detail. Façades are rendered with traditional mortar
R004147	Walls are smooth rendered, or of natural stone
R004148	Walls are smooth rendered, or of natural stone
R004149	Openings on façade are minimal, in reaction to climatic constraints
R004150	Openings on façade are minimal, in reaction to climatic constraints
R004152	Openings on façade are minimal, in reaction to climatic constraints
R004153	View of interior, payments centre
R004154	View of design model
R004155	General view, with the town of Ghardaïa in the background

End of Inventory

P. Nbr: P001169 P. Title: Social Medical Centre Arch.: BOUKHIRA Miloud
 Country : ALG/Algeria
 City : Gh /Ghardaïa Page 1

Captions of Green File Visual Material

D002087 Site plan

D002088 Site plan, showing circulation pattern

D002090 Ground floor plan

D002091 First floor plan

D002092 Housing, typical floor plan

D002093 Section A-A and West elevation

R004146 Detail. Façades are rendered with traditional mortar

R004147 Walls are smooth rendered, or of natural stone

R004148 Walls are smooth rendered, or of natural stone

R004149 Openings on façade are minimal, in reaction to climatic constraints

R004152 Openings on façade are minimal, in reaction to climatic constraints

R004153 View of interior, payments centre

R004154 View of design model

R004155 General view, with the town of Ghardaïa in the background

End of Inventory