
OPERATION & MAINTENANCE OF THE LEBANESE UNIVERSITY CAMPUS - HADATH



VOLUME 2: TECHNICAL DOCUMENTS SECTION 2.1 – GENERAL TECHNICAL VOLUME

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1. INTRODUCTION

The present agreement refers to the Operation and Maintenance of the Lebanese University Campus in accordance with the Terms and Conditions of the Contract Documents.

The following chapter of this document provides a general introduction to the components of the Campus and to the sub-division of the Works into Work Packages, a sub-division that is incorporated into the various contract documents.

An overall summary of the scope of works required from the Contractor is presented in chapter 3 of this document. The detailed description of the scope can be found in the remaining contract documents

2. COMPOSITION OF THE CAMPUS

2.1 General Presentation of the Campus

The Lebanese University Campus is a multi-building university campus with a large area of grounds. It is located in Hadath, Southern suburbs of Beirut. The campus covers a total land surface area of 705,000 m², and is expected to host up to 21,000 students. Attachment A4 overleaf provides a general data sheet of the Campus, its location on Beirut's aerial view and a plan of the Campus.

A4 – Data sheet

Project In Numbers:

- Land Area	:	705,000 m ²
- Built Up Area	:	300,000 m ²
- No. Of Students	:	25,000 Students
- Underground Parking	:	1,551
- Self Service Restaurant	:	3,000 Seats
- Cafeteria	:	1,000 Seats
- Dormitories	:	1,030 Rooms
- Main Conference Center	:	900 Seats
- Central Catering	:	8,000 Meals/Day
- Utility Tunnel Length	:	1,800 m
-Sports Complex	:	7,000 Seats, Total Area : 60,000 m ²
1- Football Field	:	1 (Natural Grass, Official Size, Synthetic Track & Field)
2- Multipurpose Courts	:	2 (Synthetic Floor)
3- Basket Ball Courts	:	11 (Official Size)
4- Tennis Courts	:	1 (Olympic Size)
5- Swimming Pool	:	1 (Olympic Size)
6- Diving Pool	:	1 (Olympic Size)

Project In Numbers:

EXTERNAL WORKS:

- External Parking	:	2,100
- Road	:	7 Km
- Bicycle Line	:	3 Km
- Paved Walkways	:	65,000 m ²
- Green and Landscaped Area	:	320,000 m ²
- Trees	:	7,000 Trees
- Shrubs	:	60,000 Shrubs
- Ground Covers	:	225,000 Ground Covers
- Irrigation Network	:	115 km of Irrigation Lines 2,500 Pop Ups & Sprinklers 117 Valves 9 Automatic Control Panels

WATER NETWORK:

- Underground Water Reservoir	:	5,000 m ³
- Pumping Station Production	:	3 x 90 l/s
- Sewage Network	:	15 l/s
- Storm Water Network	:	27,000 ml
- Irrigation Water Consumption	:	700 m ³ /day
- Domestic & Fire water Consumption.	:	Max : 2,400 m ³ /day , Average :1,000 m ³ /day
- Drinking Water Consumption	:	Max :80 m ³ /day , Average 15 m ³ /day

Project In Numbers:

COOLING/ HEATING:

- Cooling Capacity : 8,000 T.R Total building
2,000 T.R Stand-by
- Heating Capacity : 4,000 Boiler Horse power

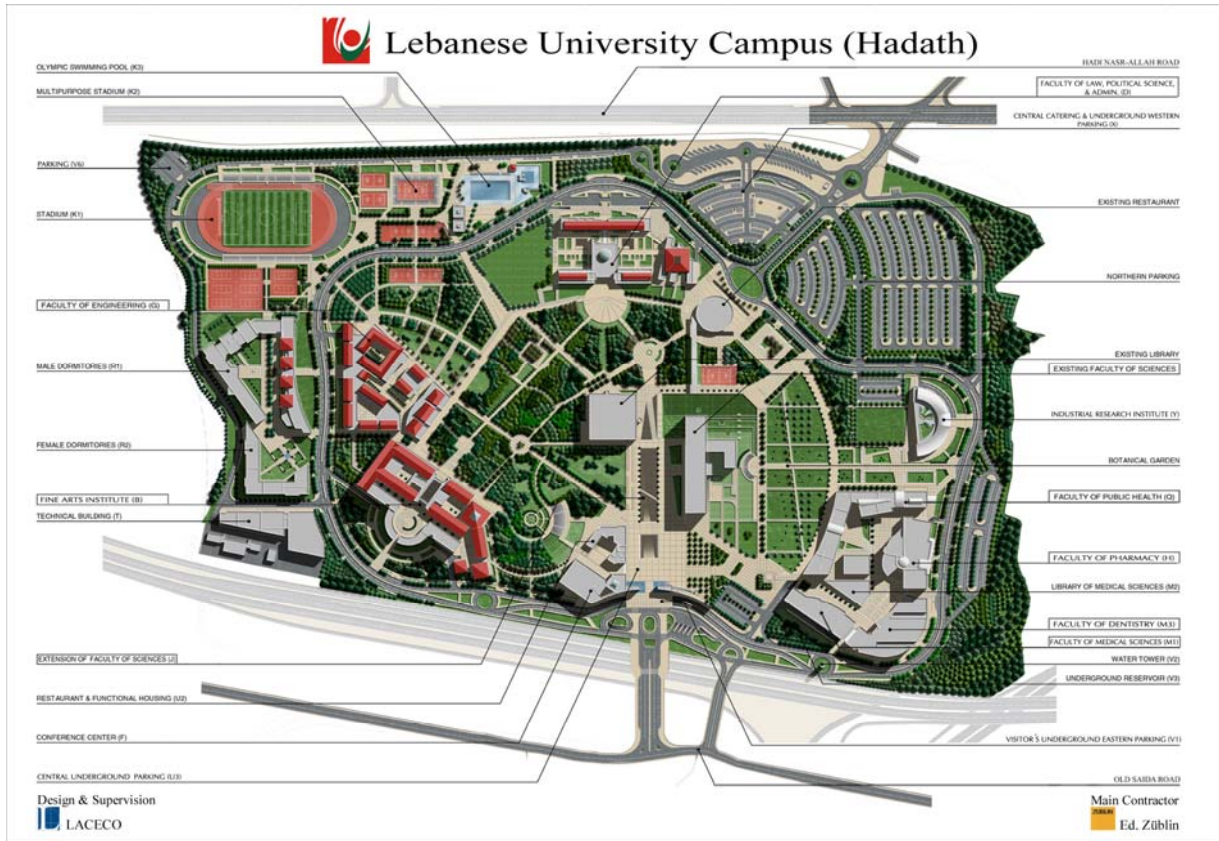
ELECTRICAL NETWORK:

- Emergency Power : 6 Mega Watts
- Electrical Load : 20 Mega Watts
- B.M.S Points : 15,000
- Access Points : 4,000
- Telephone Lines : 600 External / 3,000 Internal

A4.1 – Aerial view



A4.2 – Masterplan



2.2 Components of the Campus

The project covers various facilities; namely:

- **Faculties**
 - National School of Fine Arts (Building B)
 - Faculty of Law and Political Sciences &
Faculty of business and Administration (Building D)
 - Faculty of Engineering (Building G)
 - School of Pharmacy (Building H)
 - Extension of the Faculty of Sciences
& Doctorial School (Building J)
 - Faculty of Medicine (Building M11 M12)
 - Faculty of Dentistry (Building M13 M14)
 - Faculty of Public Health (Building Q)
 - Faculty of Sciences (Building FOS)
- **Supporting Facilities:**
 - Functional Buildings***
 - Conference Center (900 seats) (Building F)
 - Open-air Football-Athletics Stadium (Building K1)
 - Olympic Multi-Purpose Stadium (Building K2)
 - Olympic Swimming Pool (Building K3)
 - Library of Medical Sciences (Building M2)
 - Male Dormitories (Building R1)
 - Female Dormitories (Building R2)
 - Restaurant and Functional Housing (Building U2)
 - Central Parking (Building U3)
 - Eastern Parking (Building V1)
 - Underground Western Parking and Central Catering (Building X)
 - FOS Library
 - FOS Cafeteria
 - Steel Hangar
 - Steel Portable Cabinets

Technical Buildings -

Water Tower	(Building V2)
Underground Reservoir	(Building V3)
Utility Tunnel	(Building V4)
Underground Storm water Reservoir	(Building V6)
Central Thermal and Power Plant - Laundry – Technical zone	(Building T1, T2, T3),

External Works

Landscaping, Planting, Urban Furniture, External Lighting, Roads and Walkways, Signage, Fencing, Utilities networks (gas, irrigation, sewage and storm water).

Existing operational building

Industrial Research Institute (outside the scope of this Agreement)

The various above components (except the existing operational buildings) are described in greater detail in the following pages (attachments A5 and A6), which include, for each building, a data sheet, a location plan within the Masterplan and a set of plans of the building.

3. COMPOSITION OF THE TECHNICAL VOLUME OF THE CONTRACT DOCUMENTS

The Contract Documents are composed of three volumes, as identified in the Contract Agreement. The Technical volume is composed of the following documents:

- The present General Technical Volume (Section 3.1)
- Work Packages WP1 to WP7 (Sections 3.2 to 3.8)
- The set of Operation and Maintenance Manuals (Section 3.9)
- The set of As-Built Drawings Section 3.10

The present General Technical Volume introduces these various components.

3.1 Summary of the Sub-Division of the Works into Work Packages

The scope of services making up the Operation and Maintenance of the Lebanese University Campus is broken down into 7 Work Packages in order to efficiently manage the operation and maintenance cycles. The Work Packages are generally defined in relation to a trades sub-division, except work package 7 which reflects a functional identification.

The following sections identify this subdivision and provide a summary of the main components of each work package.

3.2 Work Package 1 – Mechanical Works

3.2.1 LEBANESE UNIVERSITY CAMPUS

3.2.1.1 HVAC

- Central air conditioning is achieved by chilled/hot water pipes received from thermal plant through utility tunnel, then connected to secondary pumps (located at the basement mechanical rooms inside the building) where air handling units are fed by chilled/hot water.
- Cold/hot air will distributed inside spaces from air handling units through ducts and variable air volume terminals (some spaces as amphitheatres are constant volume).
- Some small spaces as security rooms, garbage rooms, etc. are air-conditioned by mean of mini splits or fan coil units.
- Mechanical ventilation is used for toilets, stores, archives and parking by mean of fans (roof, or centrifugal).
- Mechanical smoke exhaust is used to extract fumes in case of fire for some critical spaces such as amphitheatres and parking.

3.2.1.2 PLUMBING

- Domestic/potable cold water is achieved by water pipes received from the water tower by gravity or by direct boosting from the main pumping station through utility tunnel, then distributed inside the building to plumbing fixtures / drinking fountain.
- Domestic hot water, distributed inside the building to plumbing fixtures, is generated by the hot water storage tanks located inside.
- Liquefied petroleum gas is distributed inside the building (to laboratories benches), coming from the six external gas tanks.
- Compressed air / vacuum is generated by pumps located in the basement mechanical rooms, then distributed inside the building.
- Wastewater is discharged to the external network by gravity or sump pumps located in pits.
- Fire fighting ability is provided through fire hose cabinets, and fire extinguishers.

3.2.2 FACULTY OF SCIENCES

3.2.2.1 HVAC

- Cold/hot air will distributed inside spaces through split and DX units.
- Mechanical ventilation is used for toilets, stores, and archives by mean of fans (roof, or centrifugal).

3.2.2.2 PLUMBING

- Domestic water is achieved by water pipes received from the water tower by gravity or by direct boosting from the main pumping station through utility tunnel, then distributed inside the building to plumbing fixtures.
- Wastewater is discharged to the external network by gravity or sump pumps located in pits.
- Fire fighting ability is provided through fire hose cabinets, and fire extinguishers.

3.3 Work Package 2 – Electrical Works

- Uninterruptible Power Supply (UPS) is interposed within each building between normal AC power supply and critical load to secure a minimum period of continuity of non-break battery backup for 15 minutes in case of failure of normal AC supply
- MCC's and EMCC's are feeding the mechanical equipments (pump's, fan's, AHU's,..) and are protected by a transformer call linked to building T outgoing.
- Step Down transformers are located within most building, fed in medium voltage power from building T. The transformers are feeding the MDB's and EMDB's in the main electrical room inside the building.

- Lighting fixtures and sockets outlets are fed from SLP's or ESLP (according to priorities)
- SLP's and ESLP are fed from DB's or EPP's.
- DB's and EPP's are fed from EMDB's.
- Ring main unit is fed from MV loop linked to building T and feeding the MV transformer located in the transformer room.
- MCC's and EMCC's feed all mechanical equipment within a given building.
- The fire alarm detectors/manual stations are connected to the Fire Alarm Control Panel (FACP) in multi-loops like configuration.
- The Control Modules are Connected to FACP
 - Bells and door holders are linked to the Control Modules
 - Cameras are installed in most of the buildings and they are connected to the faculty matrix switchers

3.4 Work Package 3 - Plants and networks –

3.4.1 Chilled and Heating Water Supply

- Five centrifugal chillers, with all related accessories and pumps, of 10,000 T.R capacity water cooled by cooling towers, are located in thermal plant area (building T), and produce chilled water at 5.5°C. The chilled water is distributed to buildings via pre-insulated pipes running inside the utility tunnel (V4) and connected at each building to secondary pumps inside buildings mechanical rooms.
- Four hot water boilers, with all related accessories and pumps, of 4,000 BHP capacity are located in thermal plant area, and which produce hot water at 90°C distributed to buildings via pre-insulated pipes inside utility tunnel then connected to secondary pumps/heat exchangers inside buildings mechanical rooms.
- One steam boiler, located in the technical building (building T), is used to produce steam for laundry.

3.4.2 Water Supply System

- Domestic water received from water wells located on site is stored inside underground water reservoirs, located in the main pumping station, after being treated and disinfected, then it will be pumped to elevated tank in order to be discharged by gravity through pipes inside utility tunnel to serve buildings.
- Potable water process will be same as above for domestic water but water will be desalinated through reverse osmosis.
- Fire fighting water will be received from domestic water but stocked inside an independent elevated tank.
- Irrigation water will be received from the same elevated domestic water tank

3.4.3 Emergency Power Pant

- Main Fuel Tanks delivers fuel to the Daytanks whose in its turn are connected to the Gensets
- Genset are diesel type with a rated output power of 1500, 1000, & 250 KVA.

3.4.4 Telephone Distribution Network

- The Main PABX installed in Building T is linked to Ogero by 450 Trunks
- The Main PABX installed in the Faculty of Sciences is linked to Ogero by 100 Trunks
- The Star Configured Network that links the Main PABX installed in building T and the Individual building PABX's ensure the vehiculation of communication between the Campus and the outside world and between the buildings themselves.

3.4.5 Data Distribution Network

- The redundant core switches aer linked to the individual faculties switches in star configuration
- Faculty switches are connected to the floor switch(es)
- Floor switches are connected to the individual end user outlets

3.4.6 Building Management System (BMS)

- The standalone building BMS controllers are cascaded to router(s) and fiber optic interface and then the local system is linked in a loop configuration of fiber optic cables to the central security and surveillance center

3.5 Work Package 4 – Finishing and civil works

- The structure consists of vertical elements (concrete walls), and solid slabs or PRS (pre stressed reinforced rib slabs).
- Some steel structural elements consists of canopies, bridges, stairs etc.
- Internal finishing is composed of:
 - Floor: Agglomerated tiles, ceramic tiles, vinyl and/ or rubber tiles, anti-dust paint
 - Walls: Masonry, Aluminum panels and/or painting walls..
 - Ceiling: Suspended ceiling (mineral fiber, aluminum, steel, gypsum boards),
- External finishing is composed of:

- Natural stone, marble and Stucco finish. Aluminum windows doors and curtain walls. Aluminum skylight and grating

3.6 Work Package 5 – Special technical equipments and furniture

- Kitchen equipments, cafeteria, swimming pool treatment equipment, water fountains treatment equipments, laboratories benches, laundry, lifts, crane , flow meters, fire fighting, amphitheater seats, sliding boards, fixed board, movable partitions, fixed partitions, external internal signs , video projector, and sound systems.

3.7 Work Package 6 – External Works

- Infrastructure including all the services networks (water supply, gas , irrigation , medium and low voltage, sewage and storm water), landscaping including (structural works, roads and parkings, pavements and walkways, plantation, urban furniture and external lighting).

3.8 Work Package 7 – Services

- Services includes all facilities that are used by the students, faculty and staff members, such as cleaning, security, and waste collection

3.9 List of Guarantees / Warrantees

3.9 List of Guarantees / Warrantees

List of Guarantees / Warrantees, Period Requirements						
	Item	Duration	1 ⁽¹⁾	2 ⁽²⁾	3 ⁽³⁾	Special Requirements
			Start from	Start from	Start from	
Concrete Works	Jacks	2 Year				
	Structural Bearing	20Years	Jan. 2004	Jun. 2004	Oct. 2004	
Frame works & Canopies	Protective Coating	10Years	Jan. 2004	Jun. 2004	Oct. 2004	
	Materials & Product					
	Steel Work	10Years	Jan. 2004	Jun. 2004	Oct. 2004	Covered By Insurance Company
Water proofing & joints	Materials	10Years	Jan. 2004	Jun. 2004	Oct. 2004	Covered By Insurance Company
	Workmanship	10Years	Jan. 2004	Jun. 2004	Oct. 2004	Covered By Insurance Company
External aluminum & glazing	Materials	5 Years	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	5 Years	Jan. 2004	Jun. 2004	Oct. 2004	
HVAC	Full System	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	National Certification from AABC
	Equipments	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Extended Warranty	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Plumbing	Full System	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Equipments	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Water pressure booster	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
High voltage & Electrical systems	MV Switchgear	1 Year			Oct. 2004	
	Ring Man Unit	1 Year			Oct. 2004	
	Tools And Instruments	1 Year			Oct. 2004	
	Transformers	1 Year			Oct. 2004	
	Tools And Instruments	1 Year			Oct. 2004	
	Generators	1 Year			Oct. 2004	Spare Parts for 2000 h operation
	Overhead crane	1 Year			Oct. 2004	
	Earthing System	N/A				
	Lighting : Indoor	N/A				
	Lighting : Outdoor	N/A				
	Lightning System	N/A				
	Wires And Cable feeders	N/A				
	MDBs	N/A				And/ Or a maintenance Contract w/ listed spare parts
	DBs, SDBs, Final Branch	N/A				
	UPS	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Batteries (UPS)	10 Year	Jan. 2004	Jun. 2004	Oct. 2004		
Spare Parts for UPS are provided	2000 H	Jan. 2004	Jun. 2004	Oct. 2004	Tools and Instrument	
Low current systems	Telephone System: Equipments and Material	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	Must certify in writing the availability of Spare Parts
	Computer Network : Equipments & Material	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	Must certify in writing the availability of Spare Parts
BMS	Full System	2 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Equipments	2 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Software Modification (BMS)	5 Years	Jan. 2004	Jun. 2004	Oct. 2004	
Elevators	Materials	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	Specifically for this project
	Workmanship	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Kitchens & laundry equipment	Materials	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Swimming pools	Materials	1 Year			Oct. 2004	
	Workmanship	1 Year			Oct. 2004	
	Status of Water					
Decorative fountains	Equipment	1 Year			Oct. 2004	
Restaurant & amphitheaters furniture's	Materials	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Library furniture's	Materials	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Scientific laboratories	Materials	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Carpentry & joinery works	Materials and Workmanship					
Floor & walls tiling	Materials	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	1 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Internal signs & boards	Materials	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
Specialties (White boards, screens, etc..)	Materials	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	
	Workmanship	3 Year	Jan. 2004	Jun. 2004	Oct. 2004	

1⁽¹⁾ : Guarantees Starting dates for Buildings H, J, T, V2, V3, V4 and Y

2⁽²⁾ : Guarantees Starting dates for Buildings Q, U2, U3, V1/V5 and X

3⁽³⁾ : Guarantees Starting dates for Buildings B, D, F, K, M, R1, R2 and Z

4. INFO SHEETS FOR CAMPUS BUILDINGS

- A.1 Work Parcels Definition
- A.2 List of trades
- A.3 List of Faculties & Supporting Buildings
- A.4 General Description
- A.5 List Of Faculties
 - A.5.1 National School of Fine Arts (building B)
 - A.5.2 Faculty of Law and Political Sciences & Faculty of business and Administration (building D)
 - A.5.3 Faculty of Engineering (building G)
 - A.5.4 School of Pharmacy (building H)
 - A.5.5 Extension of the Faculty of Sciences & Doctorial School (building J)
 - A.5.6 Faculty of Medicine (building M11 M12)
 - A.5.7 Faculty of Dentistry (building M13 M14)
 - A.5.8 Faculty of Public Health (building Q)
 - A.5.9 Faculty of Sciences (building FOS)
- A.6 List of Supporting Buildings**
 - A.6.1 Conference Center (900 seats) (Building F)
 - A.6.2-1 Open-air Football-Athletics Stadium (Building K1)
 - A.6.2-2 Olympic Multi-Purpose Stadium (Building K2)
 - A.6.2-3 Olympic Swimming Pool (Building K3)
 - A.6.3 Library of Medical Sciences (Building M2)
 - A.6.4 Male & Female Dormitories (Building R1&R2)
 - A.6.5 Technical Building (Building T)
 - A.6.6 Restaurant and Functional Housing (Building U2)
 - A.6.7 Eastern Parking 1 (Building U3)
 - A.6.8 Eastern Parking 2 (Building V1)
 - A.6.9 Water Tower (Building V2)
 - A.6.10 Pumping Station (Building V3)
 - A.6.11 Utility Tunnel (Building V4)
 - A.6.12 Underground Storm Water Reservoir (Building V6)
 - A.6.13 Underground Western Parking & Central Catering (Building X)
 - A.6.14 FOS Library
 - A.6.15 FOS Cafeteria

A.6.16 Steel Hangar

A.6.17 Steel Portable Cabinets

5. KEY PLAN DRAWINGS FOR CAMPUS BUILDINGS

National School of Fine Arts	(building B)
Faculty of Law and Political Sciences & Faculty of business and Administration	(building D)
Conference Center (900 seats)	(Building F)
Faculty of Engineering	(building G)
School of Pharmacy	(building H)
Extension of the Faculty of Sciences	(building J)
Open-air Football-Athletics Stadium	(Building K1)
Olympic Multi-Purpose Stadium	(Building K2)
Olympic Swimming Pool	(Building K3)
Faculty of Medicine	(building M11 M12)
Library of Medical Sciences	(Building M2)
Faculty of Dentistry	(building M13 M14)
Faculty of Public Health	(building Q)
Faculty of Sciences	(Building FOS)
Male Dormitories	(Building R1)
Female Dormitories	(Building R2)
Restaurant and Functional Housing	(Building U2)
Technical Building	(Building T)
Eastern Parking 1	(Building U3)
Eastern Parking 2	(Building V1)
Water Tower	(Building V2)
Pumping Station	(Building V3)
Utility Tunnel	(Building V4)
Underground Storm Water Reservoir	(Building V6)
Underground Western Parking & Central Catering	(Building X)
Faculty of Sciences Library	
Faculty of Sciences Cafeteria	

Lebanese University Campus - Hadath

GENERAL

A.1 Work Parcels definition

The project is divided into 8 work parcels grouping the components of LUC into coherent packages as follows:

Serial	Work parcel	Description of scope
WP1	Mechanical works	<p>HVAC</p> <ul style="list-style-type: none"> - Central Air conditioning is achieved by Chilled/Hot water pipes received from thermal plant through utility tunnel, then connected to secondary pumps (located at the basement mechanical rooms inside the building) where Air Handling Units are fed by Chilled/Hot water. - Cold/Hot air will distributed inside spaces from Air Handling Units through ducts and Variable Air Volume terminal (some spaces as amphitheatres are constant volume). - Some small spaces as security rooms, garbage rooms,... are air-conditioned by mean of Mini Splits or Fan Coil Units. - Mechanical Ventilation is used for toilets, stores, archives and parking by mean of Fans (Roof, or centrifugal). - Mechanical Smoke exhaust is used to extract fumes in case of fire for some critical spaces such as amphitheatres and parking. <p>PLUMBING</p> <ul style="list-style-type: none"> - Domestic/Potable cold water will be achieved by water pipes received from the Water tower by gravity or by direct boosting from the main pumping station through utility tunnel, then ditributed inside the building to plumbing fixtures / drinking fountain. - Domestic Hot water, ditributed inside the building to plumbing fixtures, will be heated by the hot water storage tanks loacted inside the mechanical rooms, where the Heating water will be generated by mean of the main hot water network, coming from the thermal plant. - Liquefied Petroleum Gas will be ditributed inside the building (to laboratories benches), coming from the external gas tanks located on site. - Compressed air / vacuum will be generated by pumps located in the basement mechanical rooms, then ditributed inside the building (to laboratories benches). - Waste water will be discharged to the external network by gravity or sump pumps located in pits. - Fire fighting will be through fire hose cabinets, and fire extinguishers. <p>Faculty of Sciences</p> <p>HVAC</p> <ul style="list-style-type: none"> - Cold/hot air will distributed inside spaces through split and DX units. - Mechanical ventilation is used for toilets, stores, and archives by mean of fans (roof, or centrifugal). <p>PLUMBING</p> <ul style="list-style-type: none"> - Domestic water is achieved by water pipes received from the water tower by gravity or by direct boosting from the main pumping station through utility tunnel, then distributed inside the building to plumbing fixtures. - Wastewater is discharged to the external network by gravity or sump pumps located in pits. - Fire fighting ability is provided through fire hose cabinets, and fire extinguishers.
WP2	Electrical works	<p>Electrical</p> <ul style="list-style-type: none"> -Uninterruptible Power Supply (UPS) is interposed within each building between normal AC power supply and critical load to secure a minimum period of continuity of non-break battery backup for 15 minutes in case of failure of normal AC supply - MCC's and EMCC's are feeding the mechanical equipments (pump's, fan's, AHU's,...) and are protected by a transformer call linked to building T outgoing. - 20KV/04KV Step Down transformers are located within most building, fed in medium voltage power from building T. The transformers are feeding the MDB's and EMDB's in the main electrical room inside the building. - Lighting fixtures and sockets outlets are fed from SLP's or ESLP (according to priorities) - SLP's and ESLP are fed from DB's or EPP's. - DB's and EPP's are fed from EMDB's. - Ring main unit is fed from MV loop linked to building T and feeding the MV transformer located in the transformer room. - MCC's and EMCC's feed all mechanical equipment within a given building. <p>Low Current</p> <ul style="list-style-type: none"> - The fire alarm detectors/manual stations are connected to the Fire Alarm Control Panel (FACP) in multi-loops like configuration. - The Control Modules are Connected to FACP - Bells and door holders are linked to the Control Modules - Cameras are installed in most of the buildings and they are connected to the faculty matrix switchers

Lebanese University Campus - Hadath

GENERAL

A.1 Work Parcels definition

WP3	Plants and networks	<p>Chilled and Heating Water Supply</p> <ul style="list-style-type: none"> - Five centrifugal chillers, with all related accessories and pumps, of 10000 T.R capacity water cooled by cooling towers, are located in thermal plant area, and which produce chilled water at 5.5 deg.C distributed to buildings via pre-insulated pipes inside utility tunnel then connected to secondary pumps inside buildings mechanical rooms. - Four Hot water boilers, with all related accessories and pumps, of 4000 BHP capacity are located in thermal plant area, and which produce hot water at 90 deg.C distributed to buildings via pre-insulated pipes inside utility tunnel then connected to secondary pumps/heat exchangers inside buildings mechanical rooms. - One steam boiler is used to produce steam for laundry. <p>Water Supply System</p> <ul style="list-style-type: none"> - Domestic water received from water wells located on site will be stoked inside underground water reservoirs, located in the main pumping station, after treatment and disinfections, then it will be pumped to elevated tank in order to be discharged by gravity through pipes inside utility tunnel to serve buildings. - Potable water process will be same as above for domestic water but water will be desalinated through reverse osmosis. - Fire fighting water will be received from domestic water but stoked inside an independent elevated tank. - Irrigation water will be received from the same elevated domestic water tank. <p>Emergency Power Pant</p> <ul style="list-style-type: none"> - Main Fuel Tanks delivers fuel to the Daytanks whose in its turn are connected to the Gensets - Genset are diesel type with a rated output power of 1500, 1000, & 250 KVA. <p>Telephone Distribution Network</p> <ul style="list-style-type: none"> - The Main PABX installed in Building T is linked to Ogero by 450 Trunks - The Main PABX installed in the Faculty of Sciences is linked to Ogero by 100 Trunks - The Star Configured Network that links the Main PABX installed in building T and the Individual building PABX's ensure the vehiculation of communication between the Campus and the outside world and between the buildings themselves. <p>Data Distribution Network</p> <ul style="list-style-type: none"> - The redundand core switches aer linked to the individual faculties switches in star configuration - Faculty switches are connected to the floor switch(es) - Floor switches are connected to the individual end user outlets <p>Building Management System (BMS)</p> <ul style="list-style-type: none"> - The standalone building BMS controllers are cascaded to router(s) and fiber optic interface and then the local system is linked in a loop configuration of fiber optic cables to the central security and surveillance center <p>Access Control System</p> <ul style="list-style-type: none"> - The building access controllers are cascaded to router(s) and fiber optic interface and then the local system is linked in a loop configuration of fiber optic cables to the access control workstations.
WP4	Finishing and civil works	<p>The structure consists of vertical elements (concrete walls), and solid slabs or PRS (pre stressed reinforced rib slabs). Some steel structural elements such as canopies, bridges, stairs etc....</p> <p>Internal finishing is composed of :</p> <p>Floor: Agglomerated tiles, ceramic tiles, vinyl and/ or rubber tiles, anti-dust paint.</p> <p>Walls: Masonry, Aluminum panels and/or painting walls..</p> <p>Ceiling: Suspended ceiling (mineral fiber, aluminum, steel, gypsum boards).</p> <p>External finishing is composed of :</p> <p>Natural stone, marble and Stucco finish, Aluminum windows doors and curtain walls, Aluminum skylight and grating</p>
WP5	Special technical equipments and furniture	<p>Kitchen equipments, Cafeteria, Swimming pool treatment equipment, Water fountains treatment equipments, Laboratories benches, Laundry, Lifts, cranes, flow meters , Fire fighting, Amphitheater seats, Sliding boards, Fixed board, Movable partitions, Fixed partitions, External And Internal Signs, Video Projectors and Sound System</p>
WP6	External works	<p>Infrastructure including all the services networks (water supply, gas , irrigation , medium and low voltage, sewage and storm water), landscaping including (structural works, roads and parking, pavements and walkways, plantation, urban furniture and external lighting).</p>
WP7	Services	<p>Services includes all facilities that are used by the students, faculty and staff members, such as cleaning, security, and waste collection.</p>

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GENERAL

A.2 List of Trades

This section summarises the trades which make up the works and which relate the 8 work parcels. These trades will be referred to in describing the scope of works covered by the operation and management contract.

Trade: Site Works

Trade	Trade Description	Related Work Parcel
A03	Roads	WP6
A04	Water Wells	WP3
A05	Main pumping station	WP3
A61	Domestic Water	WP3
A62	Potable Water	WP3
A63	Fire Fighting	WP3
A64	Irrigation	WP6
A71	Storm Water	WP6
A72	Waste Water	WP6
A08	Pavement	WP6
A09	Planting	WP6
A10	Urban furniture & External Works	WP6
A11	External Signs & Boards	WP6
A12	concrete Works	WP6
A13	Electrical network	WP3
A14	Low current	WP2 / WP3
A15	Chilled & Heating Water	WP3

Trade: Structural And Outboards

Trade	Trade Description	Related Work Parcel
B01	Concrete Works	WP4
B02	Frame Works & canopies	WP4
B03	Waterproofing & Joints	WP4
B04	External Wall Cladding	WP4
B05	External Aluminum & Glazing	WP4
B06	Curtain Wall	WP4
B08	Roofing	WP4

Trade: Technical Equipments

Trade	Trade Description	Related Work Parcel
C10	H.V.A.C.	WP1
C20	Plumbing	WP1
C31	Transformer Room & MV Switch Gear	WP2
C32	Power outlet and UPS layout	WP2
C33	Lighting	WP2
C35	Earthing & Lightning Protection	WP2
C37	Panel Boards	WP2
C40	Video Projector	WP5
C41	Telephone and Computer (ATA) system	WP3
C44	Access Control System & Sound System	WP3 / WP5
C45	Fire Alarm & Clock system	WP2 / WP5
C46	Time Attendance System	WP2
C47	CCTV	WP2
C48	Master Antenna System	WP2
C50	Central supervisor & Security system general	WP3
C60	Elevator	WP5

Lebanese University Campus - Hadath

GENERAL

A.2 List of Trades

This section summarises the trades which make up the works and which relate the 8 work parcels. These trades will be referred to in describing the scope of works covered by the operation and management contract.

Trade: Special Technical Equipments

Trade	Trade Description	Related Work Parcel
D01	Kitchen and Restaurant Equipment	WP5
D02	Swimming Pool Treatment Equipment and Accessories	WP5
D04	Decorative Fountains	WP5
D12	Laundry Equipment	WP5

Trade: Finishes

Trade	Trade Description	Related Work Parcel
E01	Masonry	WP4
E02	Plastering and Screed	WP4
E03	Gypsum, Insulation & Partition	WP4 / WP5
E04	Carpentry & Joinery Works	WP4
E05	Metal Works/Ironmongery	WP4
E06	Floor & Wall Rigid Tiling	WP4
E07	Flexible flooring	WP4
E08	Raised Floors	WP4
E09	Athletic Floor Finishes	WP6
E10	Suspended Ceiling	WP4
E11	General Glazing	WP4
E12	Painting & fabric Covering	WP4
E13	Internal Signs & Boards	WP5
E14	Specialties	WP5

Lebanese University Campus - Hadath

GENERAL

A.3 List of Faculties & Supporting Buildings

This section summarises the buildings making up the Lebanese University Campus, grouped by type (Faculties, Supporting Buildings, Site). These buildings are referred to in the various work parcels, each of which covers at least some of the buildings.

Faculties

Building	Building Description	Section Number
B	Fine Arts Institute	A.5.1
D	FACULTY OF LAW AND POLITICAL SCIENCES	A.5.2
G	FACULTY OF ENGINEERING	A.5.3
H	SCHOOL OF PHARMACY	A.5.4
J	EXTENSION OF THE FACULTY OF SCIENCES	A.5.5
M1	FACULTY OF MEDICINE	A.5.6
M3	FACULTY OF DENTISTRY	A.5.7
Q	FACULTY OF PUBLIC HEALTH	A.5.8
FOS	FACULTY OF SCIENCES	A.5.9

Supporting Buildings - Functional

Building	Building Description	Section Number
F	CONFERENCE CENTER	A.6.1
K1	STADIUM	A.6.2-1
K2	OPEN AIR MULTIPURPOSE STADIUM	A.6.2-2
K3	OLYMPIC SWIMMING POOL	A.6.2-3
M2	LIBRARY OF MEDICAL SCIENCES	A.6.3
U2	RESTAURANT & FUNCTIONAL HOUSING	A.6.7
U3	PARKING	A.6.8
V1	EASTERN PARKING	A.6.9
X	CENTRAL CATERING AND WESTERN PARKING	A.6.14
	FOS CAFETERIA	A.6.15
	FOS Library	A.6.16
	STEEL HANGAR	A.6.17
	STEEL PORTABLE CABINETS	A.6.18

Supporting Buildings - Residential

Building	Building Description	Section Number
R1	MALE DORMITORIES	A.6.4
R2	FEMALE DORMITORIES	A.6.5
U2	RESTAURANT & FUNCTIONAL HOUSING	A.6.7

Supporting Buildings - Technical

Building	Building Description	Section Number
T	TECHNICAL BUILDING	A.6.6
V2	WATER TOWER	A.6.10
V3	UNDERGROUND RESERVOIR	A.6.11
V4	UTILITY TUNNEL	A.6.12
V6	UNDERGROUND STORM WATER RESERVOIR	A.6.13

Site

Building	Building Description	Section Number

Lebanese University Campus - Hadath

GENERAL

A.3 List of Faculties & Supporting Buildings

Z	SITE	
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GENERAL

A.4 General Description

DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

NUMBER OF STUDENTS :	33,000
LAND SURFACE AREA :	705000 m ²
BUILT-UP AREA :	250000 m ²

DESCRIPTION OF PROJECT:

The Lebanese University Campus will regroup the various teaching faculties, presently scattered around Beirut, into a single, multidisciplinary facility, with 10 faculty buildings altogether. It aims to become the pedagogic centre of excellence in the country, hosting around 33,000 students by the year 2017.

The campus's master plan places the faculties within a protected and landscaped environment, which can foster the growth of a real university community with all support facilities, service buildings and external works. The urban integration of the University campus within the Master Plan of the metropolitan region of Beirut will also help to create a regional pole of development.

Faculties and schools of : medical sciences, dentistry, public health, pharmacy, law and political sciences, business administration and economical sciences, fine arts, doctoral school, engineering and the faculty of sciences

Supporting facilities: functional housing, men & women dormitories (1200 bedrooms), conference centre (900 seats), sport complex, underground parkings (2500 cars), central catering, Restaurants.

Service buildings : water tower, utility tunnel (1,4 Km long), central thermal and power plant, underground reservoir, underground storm water reservoir

External works: infrastructure including all the services networks (water supply, gas, irrigation, medium and low voltage, sewage and storm water), landscaping including (structural works, roads and parkings, pavements and walkways, plantation, urban furniture and external lighting).

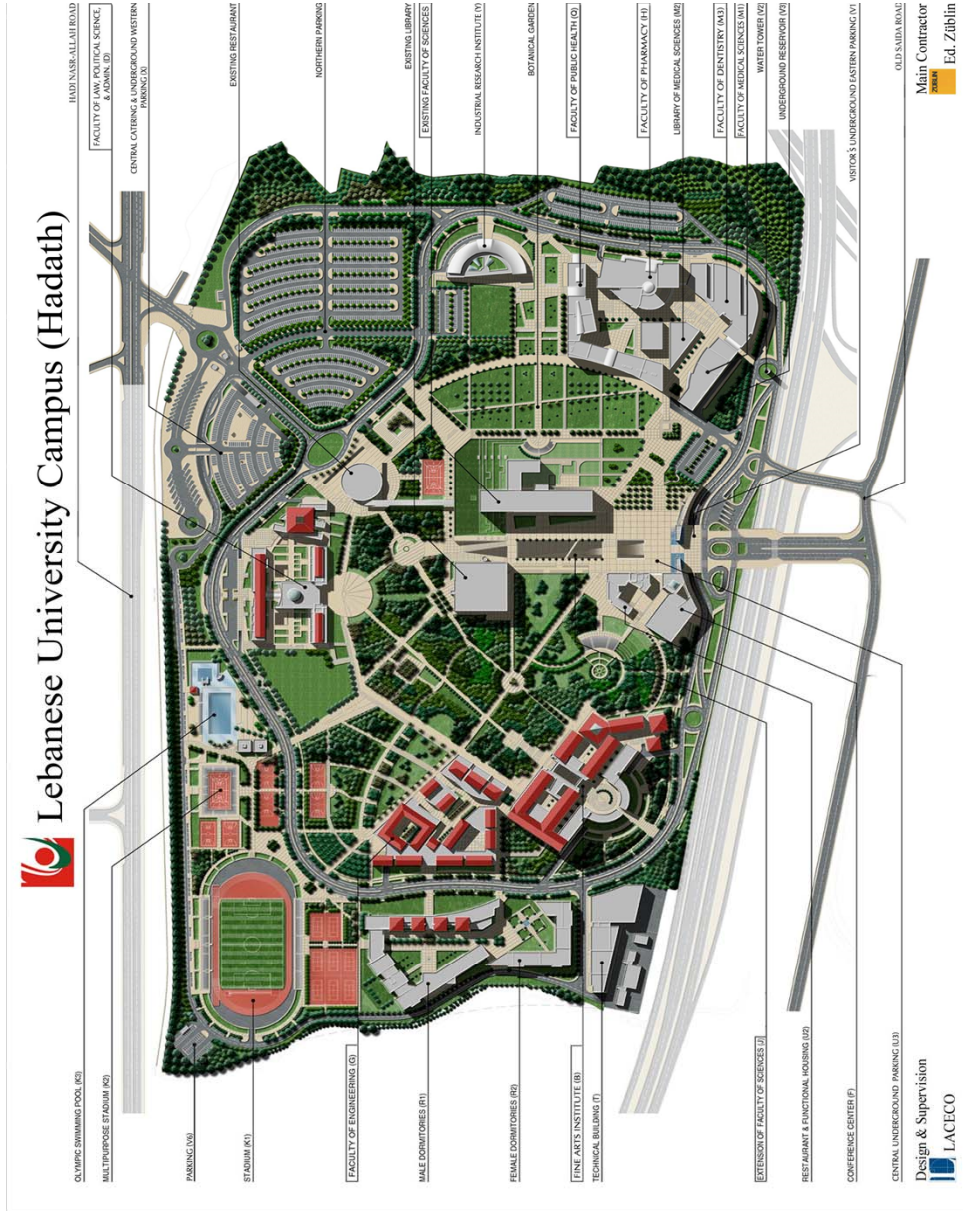
Lebanese University Campus - Hadath
GENERAL
A.4.1 Site Location Plan



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A.4.2 Master Plan



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GENERAL

A.5 List of Faculties

This section provides the location a detailed description and key plans of each Faculties as listed below.

Section	Building	Faculty Name
A.5.1	B	Fine Arts Institute
A.5.2	D	Faculty of Law & Political Sciences
A.5.3	G	Faculty of Engineering
A.5.4	H	Faculty of Pharmacy
A.5.5	J	Extension of the Faculty of Sciences
A.5.6	M11-M12	Faculty of Medicine
A.5.7	M13-M14	Faculty of Dentistry
A.5.8	Q	Faculty of Public Health
A.5.9	FOS	Faculty of Sciences

Lebanese University Campus - Hadath

GENERAL

A.5.1 Fine Arts Institute - Bldg (B)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	20,687.00
NUMBER OF STUDENTS :	1,476
NUMBER OF PROFESSORS:	148

MAIN SPACES : BAS. FLOOR :	Mechanical Zone
GR. FLOOR :	Studios, Computer Lab., Construction Lab., Offices.
1st FLOOR :	Studios, Computer Lab., Language Lab., Audio visual Lab., Multipurpose Rooms.
2nd FLOOR :	Studios

Lebanese University Campus - Hadath

GENERAL

A.5.2 Faculty of Law and Political Sciences - Bldg (D)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	20,139.00
NUMBER OF STUDENTS :	7,300
NUMBER OF PROFESSORS:	244

MAIN SPACES :	BAS. FLOOR :	Parking - Mechanical rooms.
	GR. FLOOR :	Amphitheaters - Workshops.
	1st FLOOR :	Amphitheaters - Multipurpose rooms - Classrooms - Computer lab's - Language lab's - Registrar office.
	2nd FLOOR :	Student offices - Library - Classrooms - Professors offices - Offices - Multipurpose rooms.
	3rd FLOOR :	Library - Professors offices - Multipurpose rooms.

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GENERAL

A.5.3 Faculty of Engineering - Bldg (G)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	SLEIMAN HABIB HADDAD
CONTROL BUREAU :	APAVE
TOTAL BUILT-UP AREA (m2):	14,000.00
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	
MAIN SPACES : BAS. FLOOR :	Hydraulic lab - Aerodynamic lab - Turbo machinery lab - Automobile mechanic lab - Soil mechanical lab - Public work lab - Metal workshop - Welding workshop - Joinery workshop - Stack room - Mechanical room
GR. FLOOR :	Amphitheater 300 seats - 8 Amphitheatres 120 seats - 3 Physique lab's - Structural lab - Topography lab - Geology lab - 2 Language lab's - 15 Class rooms - 4 Multipurpose rooms 2 Studios - Library - Cafeteria - Offices
1st FLOOR :	Physic lab - 9 Electrical lab's - 2 Biochemistry lab's - 9 Computer lab's - 7 Class rooms - 4 Multipurpose rooms - Workshop - Library - Documentation research services - Research lab's - Offices

Lebanese University Campus - Hadath

GENERAL

A.5.4 Faculty of Pharmacy - Bldg (H)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	5,179.00
NUMBER OF STUDENTS :	200
NUMBER OF PROFESSORS:	20

MAIN SPACES : BAS. FLOOR :	Parking - Mechanical rooms.
GR. FLOOR :	Amphitheaters - Offices.
1st FLOOR :	Research lab's - industrial lab's - Computer lab's.
2nd FLOOR :	Multipurpose - Audio-visual - language lab's - Scientific lab's.

Lebanese University Campus - Hadath**GENERAL****A.5.5 Extension of the Faculty of Sciences - Bldg (J)**

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	15,620.00
NUMBER OF STUDENTS :	7,500
NUMBER OF PROFESSORS:	

MAIN SPACES : 2nd BAS. FL. :	Amphitheatres - Classrooms - Computer lab's - Mechanical rooms
1st BAS. FL. :	Offices - Amphitheatres - Classrooms
1st FLOOR :	-
2nd FLOOR :	-

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GENERAL

A.5.6 Faculty of Medicine - Bldg (M11-M12)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	12,290.00
NUMBER OF STUDENTS :	1,380
NUMBER OF PROFESSORS:	69

MAIN SPACES : BAS. FLOOR :	Technical zone
GR. FLOOR :	Scientific lab's - Research offices - Multi-purpose Rooms - Computer Lab's - Workshops.
1st FLOOR :	Amphitheaters - Scientific lab's -Offices -Operation rooms
2nd FLOOR :	Amphitheaters - Scientific lab's - Offices - Professors Offices - Scientific lab's - Language lab's

Lebanese University Campus - Hadath

GENERAL

A.5.7 Faculty of Dentistry - Bldg (M13-M14)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	12,290.00
NUMBER OF STUDENTS :	1,380
NUMBER OF PROFESSORS:	69

MAIN SPACES : BAS. FLOOR :	Technical zone
GR. FLOOR :	Scientific lab's - Dentist cabinets - Research offices - Multi-purpose Rooms - Computer Lab's - Workshops.
1st FLOOR :	Amphitheaters - Scientific lab's - Dentist Cabinets - Offices - Operation rooms
2nd FLOOR :	Amphitheaters - Scientific lab's - Offices - Professors Offices - Sientific lab's - Language lab's

Lebanese University Campus - Hadath

GENERAL

A.5.8 Faculty of Public Health - Bldg (Q)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	10,837.00
NUMBER OF STUDENTS :	1,000
NUMBER OF PROFESSORS:	100

MAIN SPACES : 2nd BAS. FL. :	Technical room
1st BAS. FL. :	Mechanical workshop - Therapeutic pools - Scientific lab's
GR. FLOOR :	Amphitheatres - Scientific lab's - Offices - Nurses Medicare lab's - Research lab's - Computer classes
1st FLOOR :	Offices - Research lab's - Classrooms - Scientific lab's

Lebanese University Campus - Hadath

GENERAL

A.5.9 Faculty of Sciences - Bldg (FOS)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	
BUREAU DE CONTROL :	

TOTAL BUILT-UP AREA (m2):	42,356.00
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES : BAS. FLOOR :	Mechanical Zone
GR. FLOOR :	Multi-purpose rooms - Offices
1st FLOOR :	Scientific lab's - Offices - Professors Offices - Scientific lab's
2nd FLOOR :	Scientific lab's - Offices - Professors Offices - Scientific lab's
3rd FLOOR :	Scientific lab's - Offices - Professors Offices - Scientific lab's
4th FLOOR :	Scientific lab's - Offices - Professors Offices - Scientific lab's
5th FLOOR :	Scientific lab's - Offices - Professors Offices - Scientific lab's

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GENERAL

A.6 List of Supporting Buildings

This section provides the location a detailed description and key plans of each Supporting Building as listed below.

Section	Building	Building Name
A.6.1	F	Conference Center
A.6.2-1	K1	Stadium
A.6.2-2	K2	Open Air Multipurpose Stadium
A.6.2-3	K3	Olympic Swimming Pool
A.6.3	M2	Library of Medical Sciences
A.6.4	R01 & R02	Male Dormitories & Female Dormitories
A.6.5	T1, T2 & T3	Technical Area
A.6.6	U2	Restaurant & Functional Housing
A.6.7	U3	Central Parking
A.6.8	V1	Eastern Parking
A.6.9	V2	Water Tower
A.6.10	V3	Pumping Station
A.6.11	V4	Utility Tunnel
A.6.12	V6	UNDERGROUND STORM WATER RESERVOIR
A.6.13	X	Underground Western Parking and Central Catering
A.6.14		FOS Library
A.6.15		FOS Cafeteria
A.6.16		Steel Hangar
A.6.17		Steel Portable Cabinets

Lebanese University Campus - Hadath

GENERAL

A.6.1 Conference Center - Bldg (F)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL BUILT-UP AREA (m2):	6,233.00
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES : 2nd BAS. FL. :	Amphitheaters - Workshops - Storages - Musicians area.
1st BAS. FL. :	Meeting rooms - Cafeteria - Mechanical rooms.
GR. FLOOR :	Theaters (850 Seats)
1st FLOOR :	Theaters void - Library.
2nd FLOOR :	Offices

Lebanese University Campus - Hadath

GENERAL

A.6.2-1 Stadium - Bldg (K1)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	21,000.00
NUMBER OF SPECTATORS :	4,000
NUMBER OF PROFESSORS:	-

MAIN SPACES : 1st BAS. FL. :	-
GR. FLOOR :	Athletics and public facilities

Lebanese University Campus - Hadath

GENERAL

A.6.2-2 Open Air Multipurpose Stadium - Bldg (K2)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	2,925.00
NUMBER OF SPECTATORS :	2,000
NUMBER OF PROFESSORS:	-

MAIN SPACES : 1st BAS. FL. :	-
GR. FLOOR :	Athletics and public facilities

Lebanese University Campus - Hadath

GENERAL

A.6.2-3 Olympic Swimming Pool - Bldg (K3)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	4,700.00
NUMBER OF SPECTATORS :	1,000
NUMBER OF PROFESSORS:	-

MAIN SPACES : 2nd BAS. FL. :	-
1st BAS. FL. :	Athletics and public facilities.

Lebanese University Campus - Hadath

GENERAL

A.6.3 Library of Medical Sciences - Bldg (M2)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2):	1,474.00
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES : BAS. FLOOR :	
GR. FLOOR :	
1st FLOOR :	

Lebanese University Campus - Hadath

GENERAL

A.6.4 Male & Female Dormitories - Bldg (R01-R02)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL BUILT-UP AREA (m2):	49,000
NUMBER OF STUDENTS :	2,060
NUMBER OF PROFESSORS:	

MAIN SPACES :	BAS. FL. :	27 rooms, 1Apartment, Health club, Seating area, Service area, parking 198 cars
	GR. FLOOR :	193 rooms, 8 Entrances hall, Cafeteria, Administration offices, Service area
	1st FLOOR :	248 rooms, Service area
	2nd FLOOR :	279 rooms, Service area
	3rd FLOOR :	250 rooms, Service area
	4th FLOOR :	33 rooms, Services area

Lebanese University Campus - Hadath

GENERAL

A.6.5 Technical Building - Bldg (T1, T2, & T3)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL CAPACITY (m3):	5500 m2
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath

GENERAL

A.6.6 Restaurant & Functional Housing - Bldg (U2)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL BUILT-UP AREA (m2):	5,000
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES : 2nd BAS. FL. :	Service area
1st BAS. FL. :	Dining room, Kitchen, Stack room, Service area
GR. FLOOR :	Dining room, Guest lounge, Check room, Service area
1st FLOOR :	9 Apartments
2nd FLOOR :	8 Apartments

Lebanese University Campus - Hadath

GENERAL

A.6.7 Eastern Parking 1 - Bldg (U3)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL CAPACITY (m2):	9,000
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath

GENERAL

A.6.8 Eastern Parking 2 - Bldg (V1)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL CAPACITY (m2):	12,000
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath**GENERAL****A.6.9 Water Tower - Bldg (V2)**

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL CAPACITY (m3):	80
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath

GENERAL

A.6.10 Pumping Station - Bldg (V3)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

PRODUCTIVITY:	90 L/S
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath

GENERAL

A.6.11 Utility Tunnel - Bldg (V4)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL CAPACITY (m2):	10,000
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath

GENERAL

A.6.12 Underground Storm Water Reservoir - Bldg (V6)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
CONTROL BUREAU	APAVE

TOTAL CAPACITY (m3):	7,000
NUMBER OF STUDENTS :	
NUMBER OF PROFESSORS:	

MAIN SPACES :	

Lebanese University Campus - Hadath**GENERAL**

A.6.13 Underground Western Parking & Central Catering - Bldg (X)

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	ED. ZUBLIN AG
BUREAU DE CONTROL :	APAVE

TOTAL BUILT-UP AREA (m2) :	8,676.00
NUMBER OF EMPLOYEES :	

MAIN SPACES : BAS. FLOOR :	
GR. FLOOR :	
1st FLOOR :	
2nd FLOOR :	

Lebanese University Campus - Hadath

GENERAL

A.6.14 FOS Library

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	
BUREAU DE CONTROL :	

TOTAL BUILT-UP AREA (m2) :	14,500.00
NUMBER OF EMPLOYEES :	

MAIN SPACES : BAS. FLOOR :	Multi-purpose rooms - Halls
GR. FLOOR :	Offices for Doctorial School
1st FLOOR :	FOS Library
2nd FLOOR :	Scientific lab's - Offices

Lebanese University Campus - Hadath

GENERAL

A.6.15 FOS Cafeteria

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	
BUREAU DE CONTROL :	
TOTAL BUILT-UP AREA (m2) :	2,300.00
NUMBER OF EMPLOYEES :	
MAIN SPACES : BAS. FLOOR :	
GR. FLOOR :	Cafeteria

Lebanese University Campus - Hadath

GENERAL

A.6.16 Steel Hangar

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	
BUREAU DE CONTROL :	
TOTAL BUILT-UP AREA (m2) :	370.00
NUMBER OF EMPLOYEES :	
MAIN SPACES : GR FLOOR :	Lebanese Army Usage

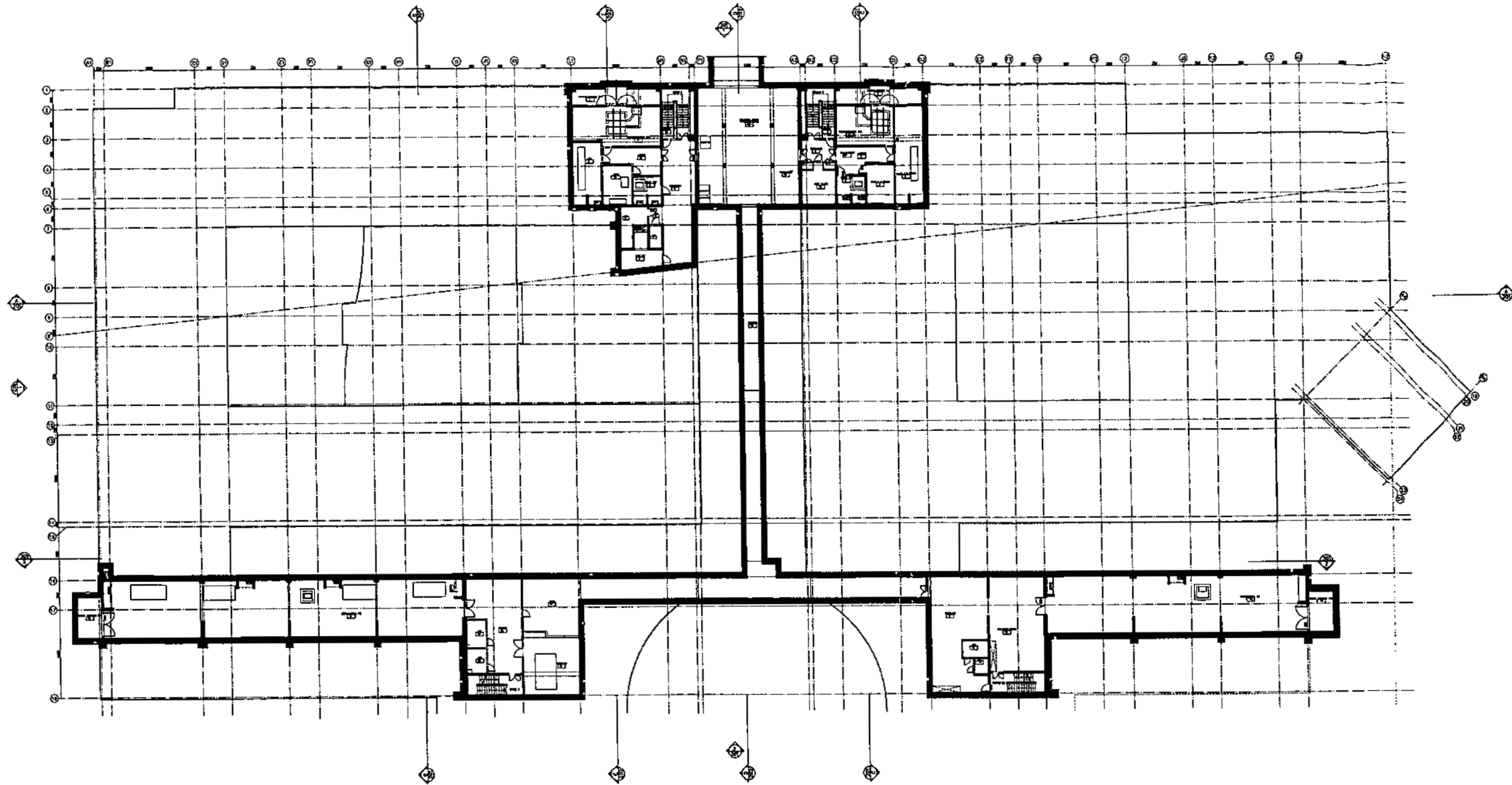
Lebanese University Campus - Hadath**GENERAL****A.6.17 Steel Portable Cabinets**

BUILDING DATA

EMPLOYER :	COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION (C. D. R)
ENGINEER :	L.A.C.E.CO
CONTRACTOR :	
BUREAU DE CONTROL :	
TOTAL BUILT-UP AREA (m2) :	100.00
NUMBER OF EMPLOYEES :	
MAIN SPACES : . GR. FLOOR :	Red Cross and Internal Security Forces Usage

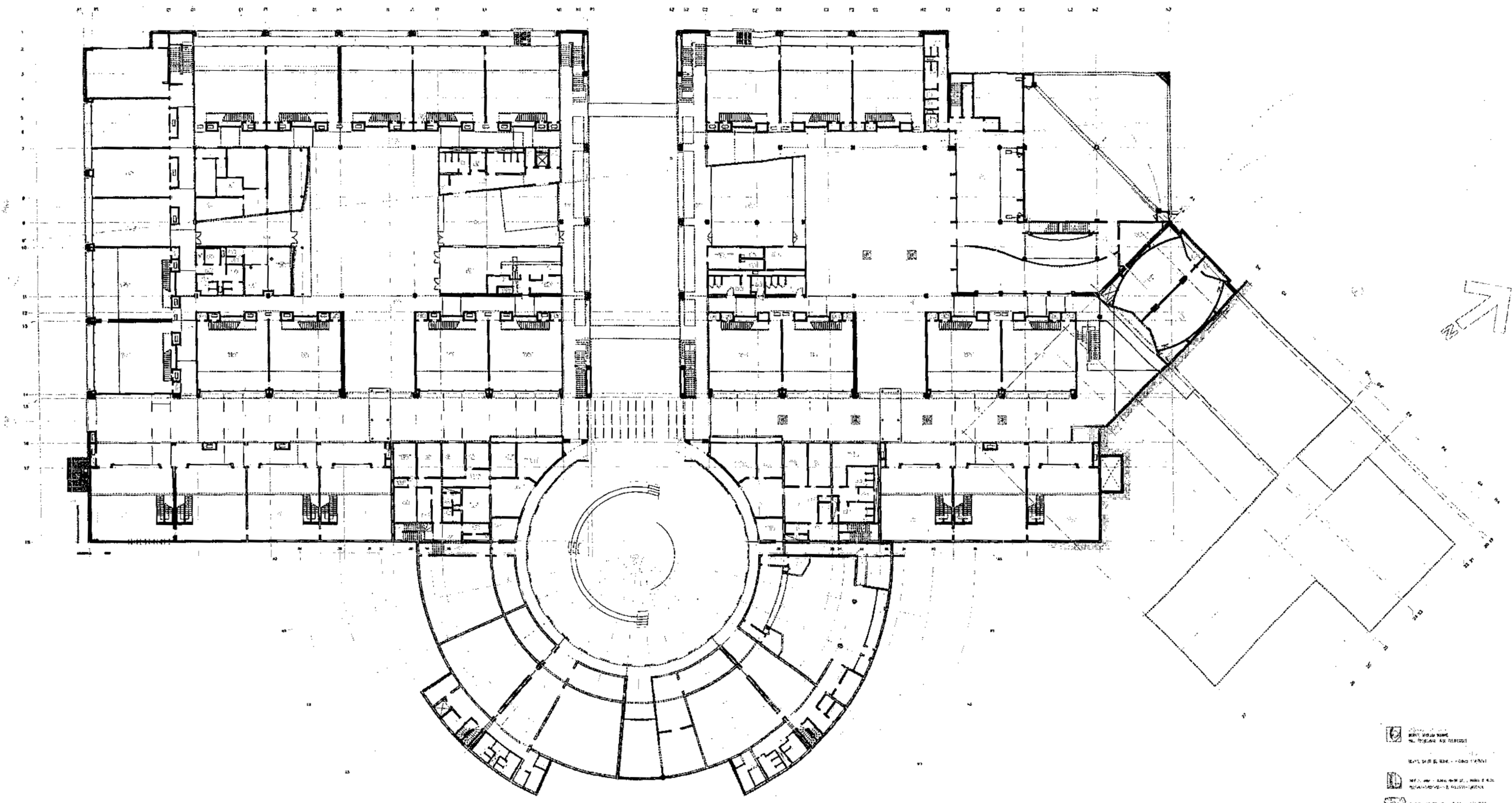
1. KEY PLAN DRAWINGS FOR CAMPUS BUILDINGS





National School of Fine Arts	(building B)
Faculty of Law and Political Sciences & Faculty of business and Administration	(building D)
Conference Center (900 seats)	(Building F)
Faculty of Engineering	(building G)
School of Pharmacy	(building H)
Extension of the Faculty of Sciences	(building J)
Open-air Football-Athletics Stadium	(Building K1)
Olympic Multi-Purpose Stadium	(Building K2)
Olympic Swimming Pool	(Building K3)
Faculty of Medicine	(building M11 M12)
Library of Medical Sciences	(Building M2)
Faculty of Dentistry	(building M13 M14)
Faculty of Public Health	(building Q)
Faculty of Sciences	(Building FOS)
Male Dormitories	(Building R1)
Female Dormitories	(Building R2)
Restaurant and Functional Housing	(Building U2)
Technical Building	(Building T)
Eastern Parking 1	(Building U3)
Eastern Parking 2	(Building V1)
Water Tower	(Building V2)
Pumping Station	(Building V3)
Utility Tunnel	(Building V4)
Underground Storm Water Reservoir	(Building V6)
Underground Western Parking & Central Catering Faculty of Sciences Library Faculty of Sciences Cafeteria	(Building X)



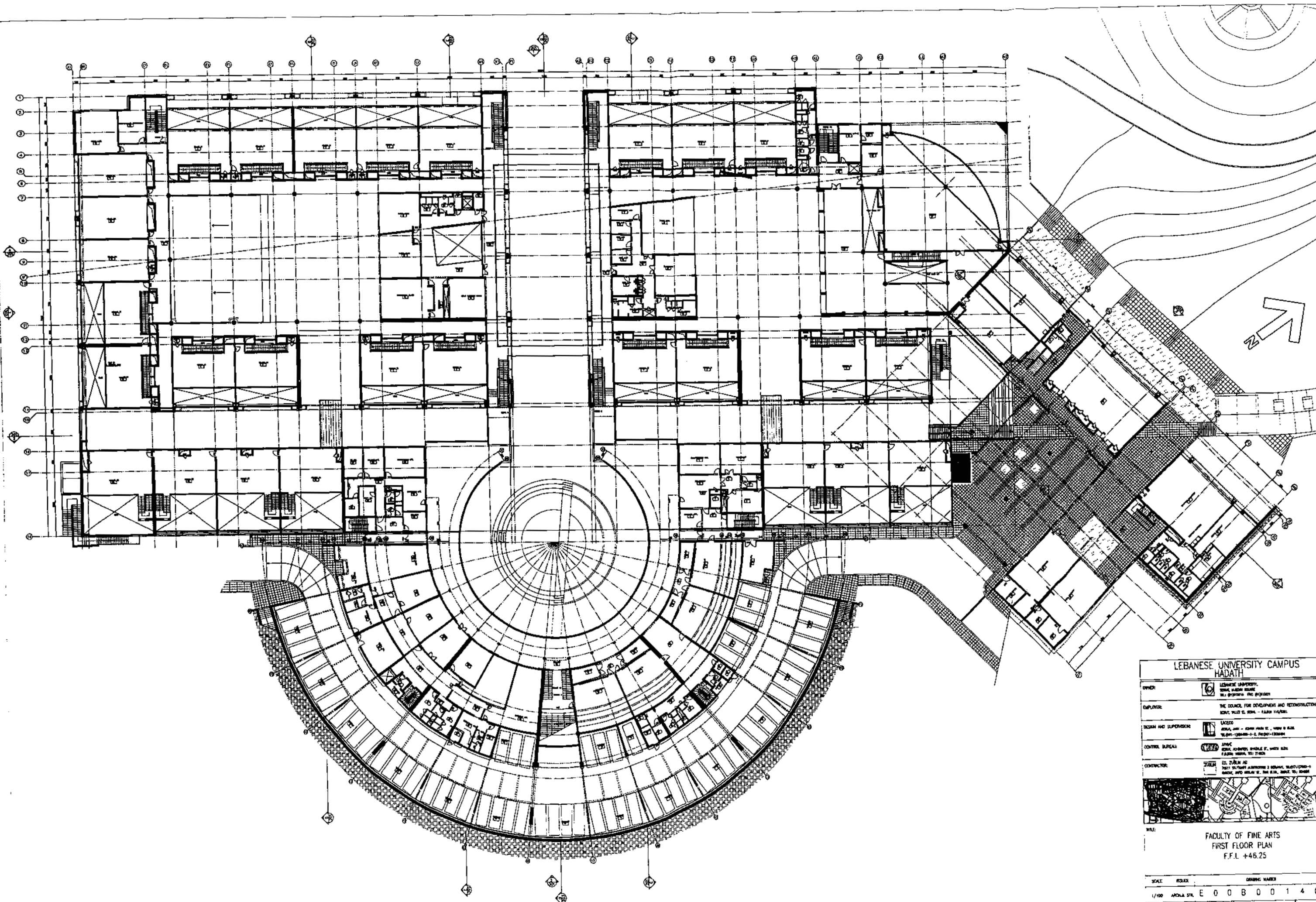
LEBANESE UNIVERSITY CAMPUS HADATH		
OWNER:		LEBANESE UNIVERSITY, BAYT VAKAR SQUARE, BEIRUT (SYRIAN) TEL. 011-351001
EMPLOYER:		THE COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION BAYT VAKAR SQUARE - PART 11/15/81
DESIGN AND SUPERVISOR:		LACED ED. JAWHAR - JAWHAR ST., BAYT VAKAR TEL. 011-351001-1-2, 11/15/81
CONTROL BUREAU:		APAC EDUCATIONAL BUILDING NO. 1, BAYT VAKAR BAYT VAKAR SQUARE, BEIRUT
CONTRACTOR:		SOGEM SA BAYT VAKAR SQUARE - PART 11/15/81 BAYT VAKAR SQUARE, BEIRUT, L.B.
TITLE: NATIONAL SCHOOL OF FINE ARTS BASEMENT FLOOR PLAN F.F.L. +38.53		
SCALE:	ISSUE:	DRAWING NUMBER:
1/100	ARCHITECT:	E 0 0 B 0 0 1 2 0 X
ZORAN REY : SA	LACED REF. :	DATE: 30-APRIL-82

AS BUILT DWG.
ARCHITECTURE



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 ВХОД В ЗДАНИЕ
 ВХОД В ЗДАНИЕ
- 
 ВЫХОД ИЗ ЗДАНИЯ
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 ЛЕСТНИЦА
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**LEBANESE UNIVERSITY CAMPUS
HADATH**

OWNER: **LEBANESE UNIVERSITY**
TRUNK LADDER HOUSE
112, BRIGADIER, THE GARDEN

EMPLOYER: **THE COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION**
KHALIL HAJI EL-SAYED - FARUK HAJI EL-SAYED

DESIGN AND SUPERVISION: **LACEDS**
LACEDS, 1001 - 1005, HADATH ST., HADATH
TEL: 001-224444-1-2, FAX: 001-224444-1

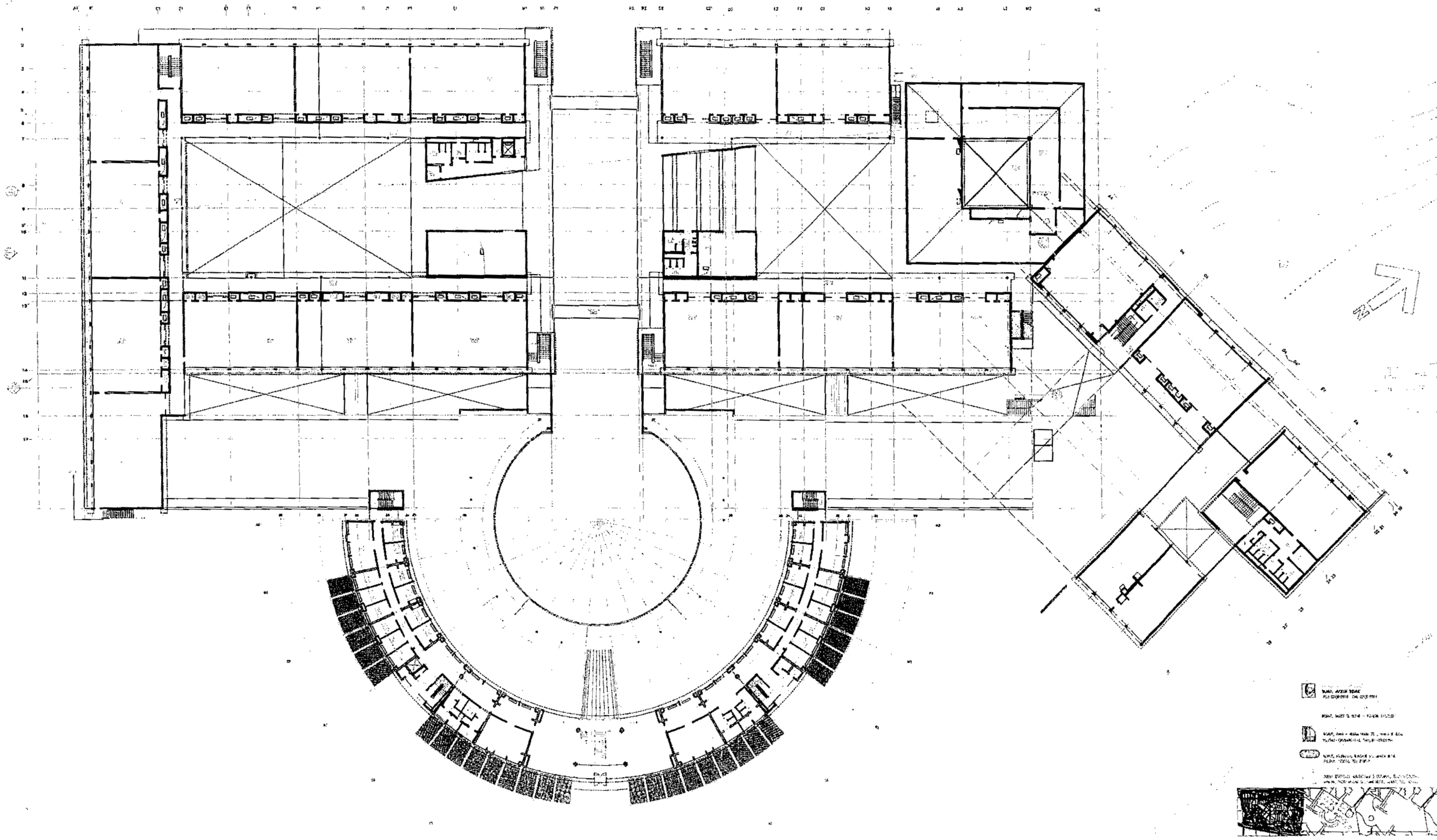
CONTROL SURVEIL: **APAC**
APAC, 1001, HADATH ST., HADATH
FARUK HAJI EL-SAYED, TEL: 001-224444-1

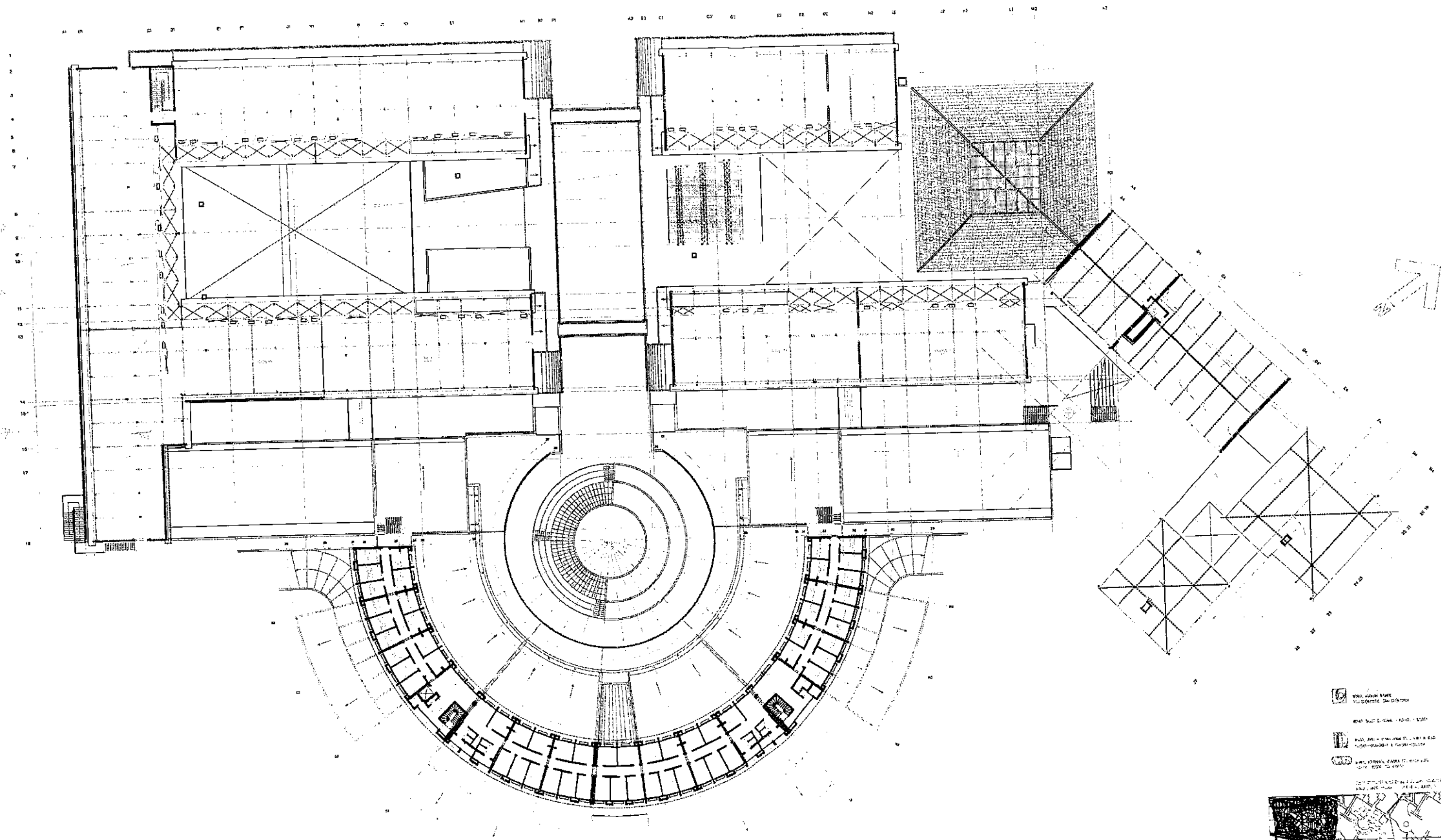
CONTRACTOR: **EL-DAR AND PARTNERS**
1001, HADATH ST., HADATH
KHALIL HAJI EL-SAYED, TEL: 001-224444-1




FILE: **FACULTY OF FINE ARTS
FIRST FLOOR PLAN
F.F.L. +46.25**

SCALE	ESKAZ	DRAWING NUMBER	REV
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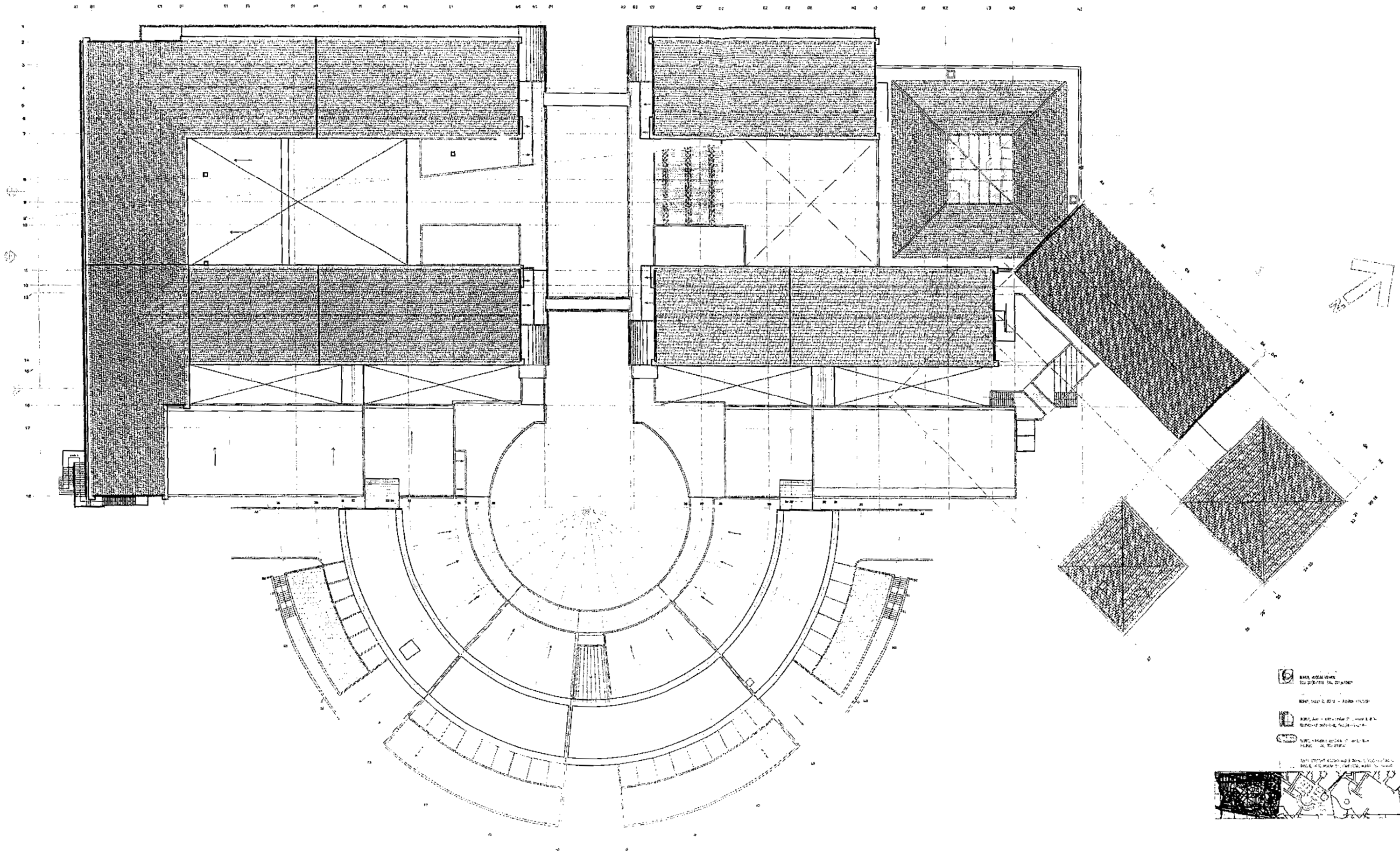
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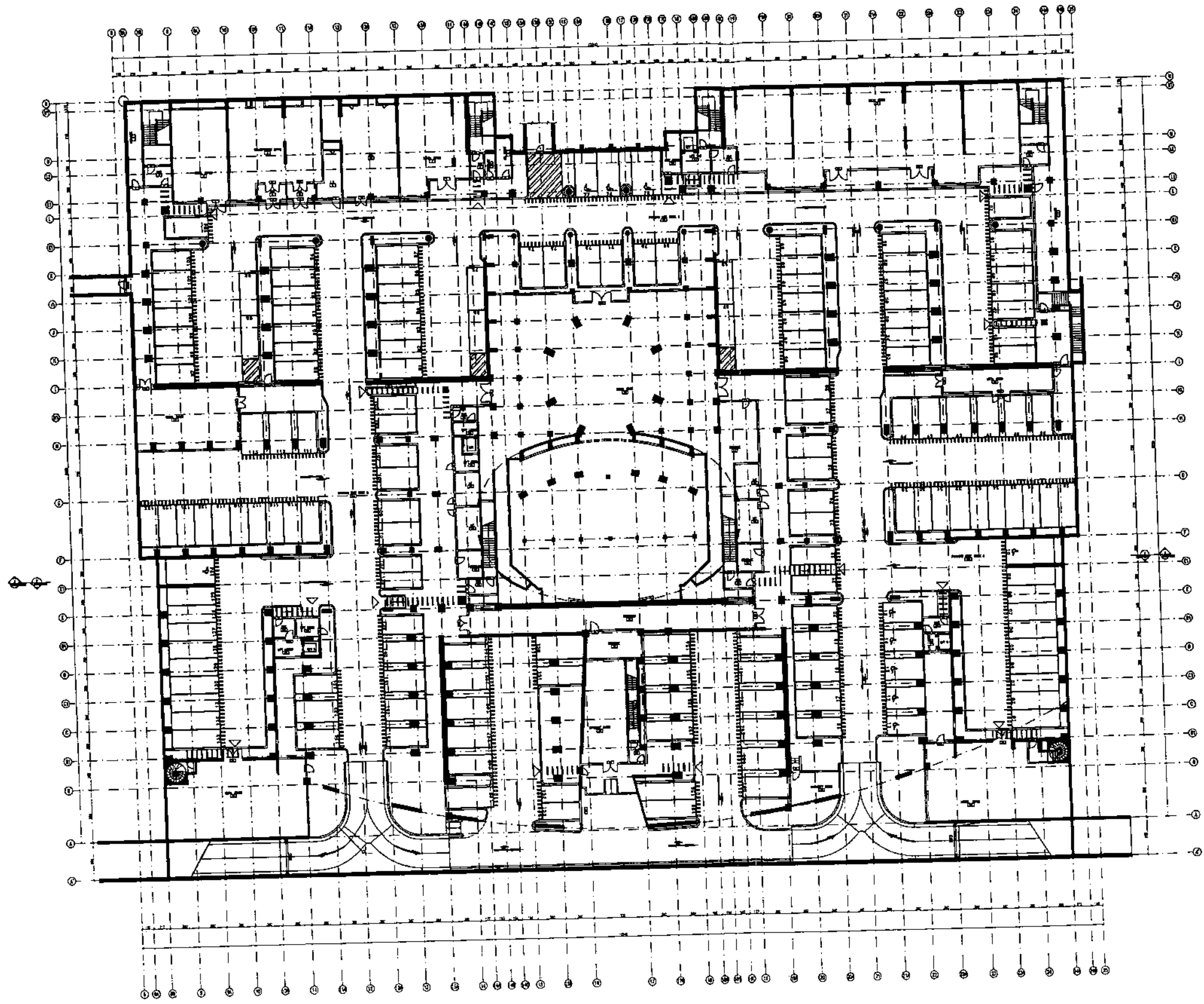
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 2. PAVIMENTO IN MARMOCALCE
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 3. PAVIMENTO IN MARMOCALCE
 4. PAVIMENTO IN MARMOCALCE
- 
 5. PAVIMENTO IN MARMOCALCE
 6. PAVIMENTO IN MARMOCALCE





- 
 БАРАЖИ ИЛИ КОМНАТЫ
 ВЪЗДУШНОГО ВОЗДУХА
- 
 КОМНАТЫ ИЛИ КОМНАТЫ - АРХИТЕКТУРА
- 
 КОМНАТЫ ИЛИ КОМНАТЫ - КОММУНИКАЦИИ
- 
 КОМНАТЫ ИЛИ КОМНАТЫ - КОММУНИКАЦИИ

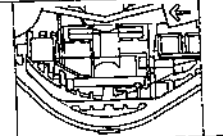




REVISION	DATE	REMARKS

**LEBANESE UNIVERSITY CAMPUS
HADATH**

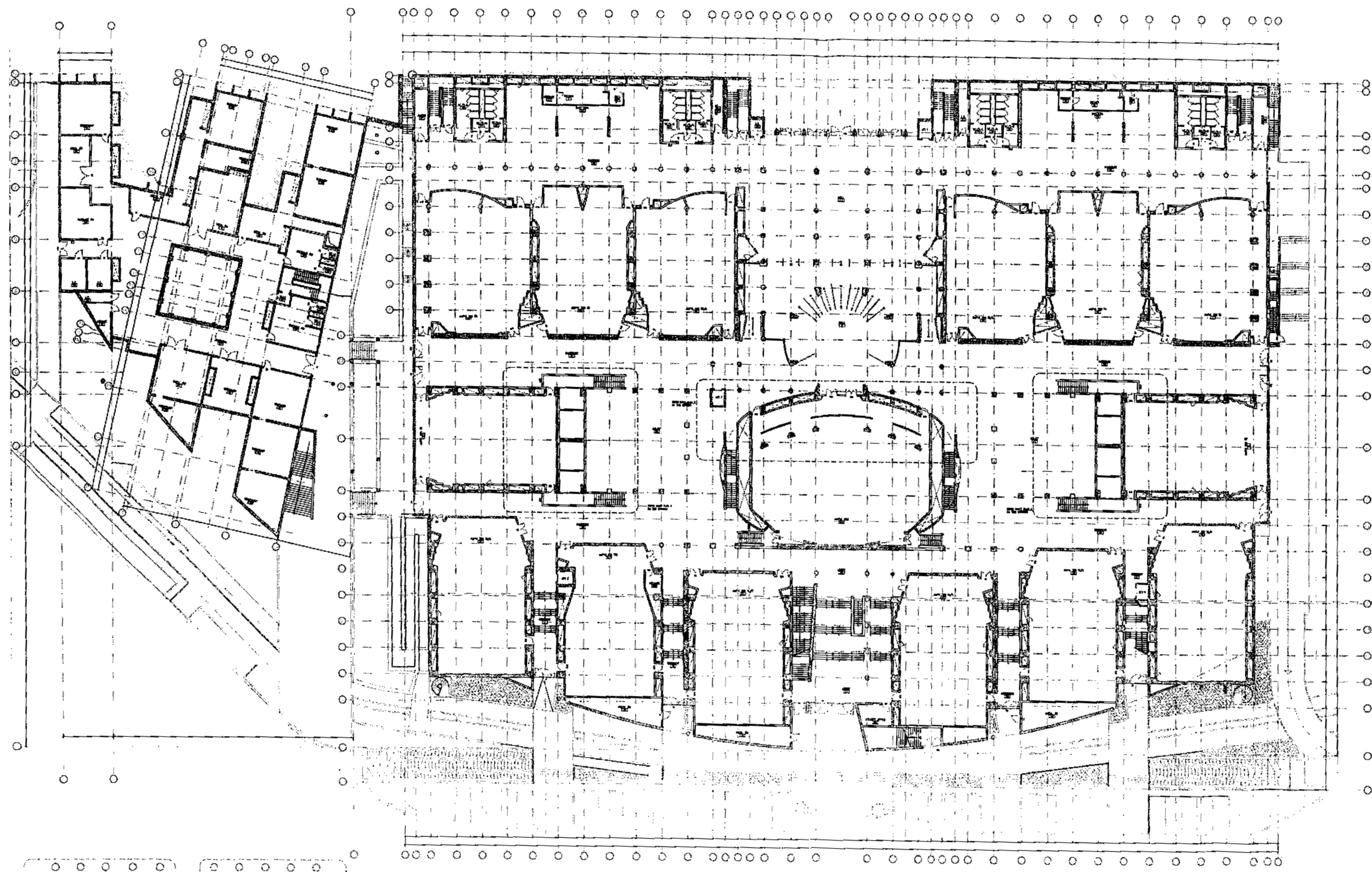
OWNER:	LEBANESE UNIVERSITY HADATH CAMPUS TRIPOLI - LIBANON
EMPLOYER:	THE COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION RPMU, SAUC & SINA - BEIRUT
DESIGN AND SUPERVISION:	LACED RPMU, SAUC & SINA - BEIRUT RPMU - TRIPOLI - LIBANON
CONTROL BUREAU:	STATE GENERAL ENGINEERING OFFICE, SAUC & SINA RPMU - TRIPOLI - LIBANON
CONTRACTOR:	SAUC & SINA AS PROJECT MANAGER & GENERAL SUPERVISOR RPMU, SAUC & SINA - BEIRUT







FACULTY OF LAW AND POLITICAL SCIENCES BUILDING
BASEMENT FLOOR PLAN
F.F.L +29.50 AND +28.65

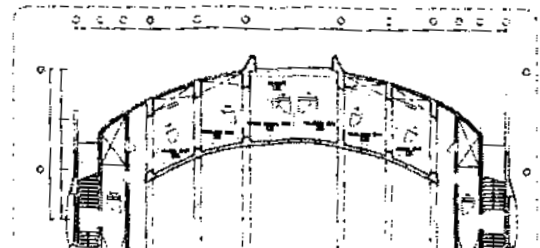
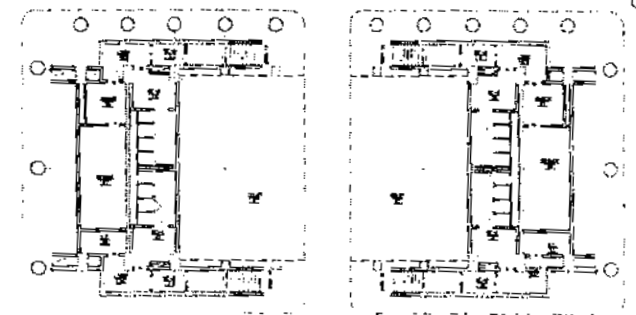
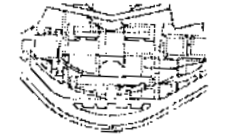
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ARCHITECTURE**

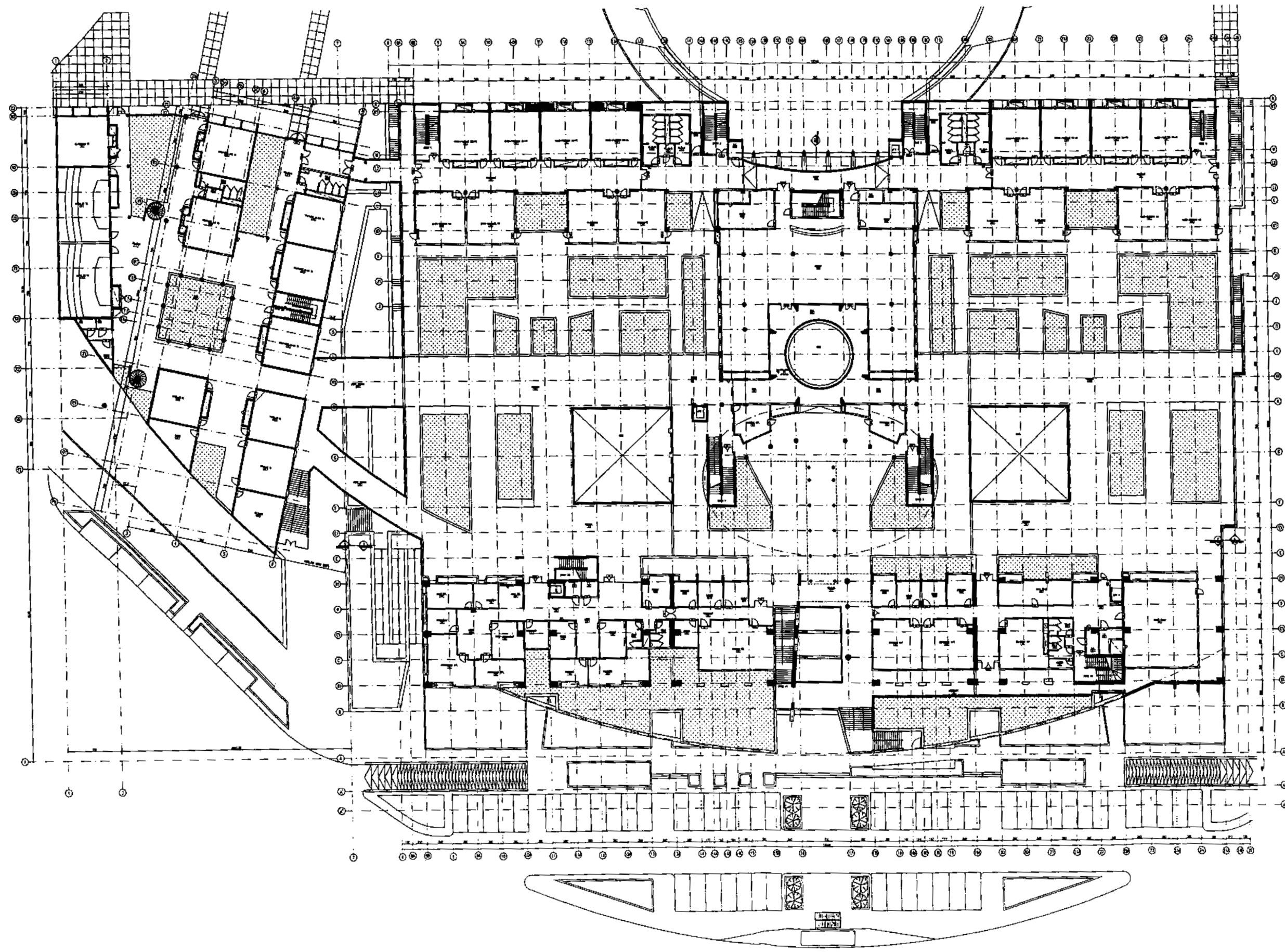


REVISION	DATE	PROJECT

- 
 WOOD SCREEN DOOR
 SEE FINISH AND DETAILS
- 
 DOOR WITH TRANSOMS - HARD FINISH
- 
 DOOR WITH TRANSOMS AND LOCK
 WITH HARD FINISH
- 
 DOOR WITH TRANSOMS AND LOCK
 WITH HARD FINISH



SEE PLAN



REVISION	DATE	SUBJECT

LEBANESE UNIVERSITY CAMPUS
HADATH

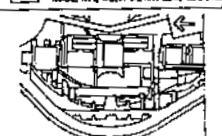
OWNER: LEBANESE UNIVERSITY,
BEIRUT, SYRIAN STR. -
TEL: (995) 344 1111 - FAX: (995) 344 1111

EMPLOYER: THE OFFICE FOR DEVELOPMENT AND RECONSTRUCTION
BEIRUT, SAZZI B. ROAD - P.O. BOX 114/2001

DESIGN AND SUPERVISION: LACED
BEIRUT, AMN - JAWHAR ST. - HADATH BLDG.
TEL: (995) 344 1111 - FAX: (995) 344 1111

CONTROL BUREAU: AFAP
BEIRUT, JOHANNI KARAKI ST. - HADATH BLDG.
P.O. BOX 114/2001 - BEIRUT

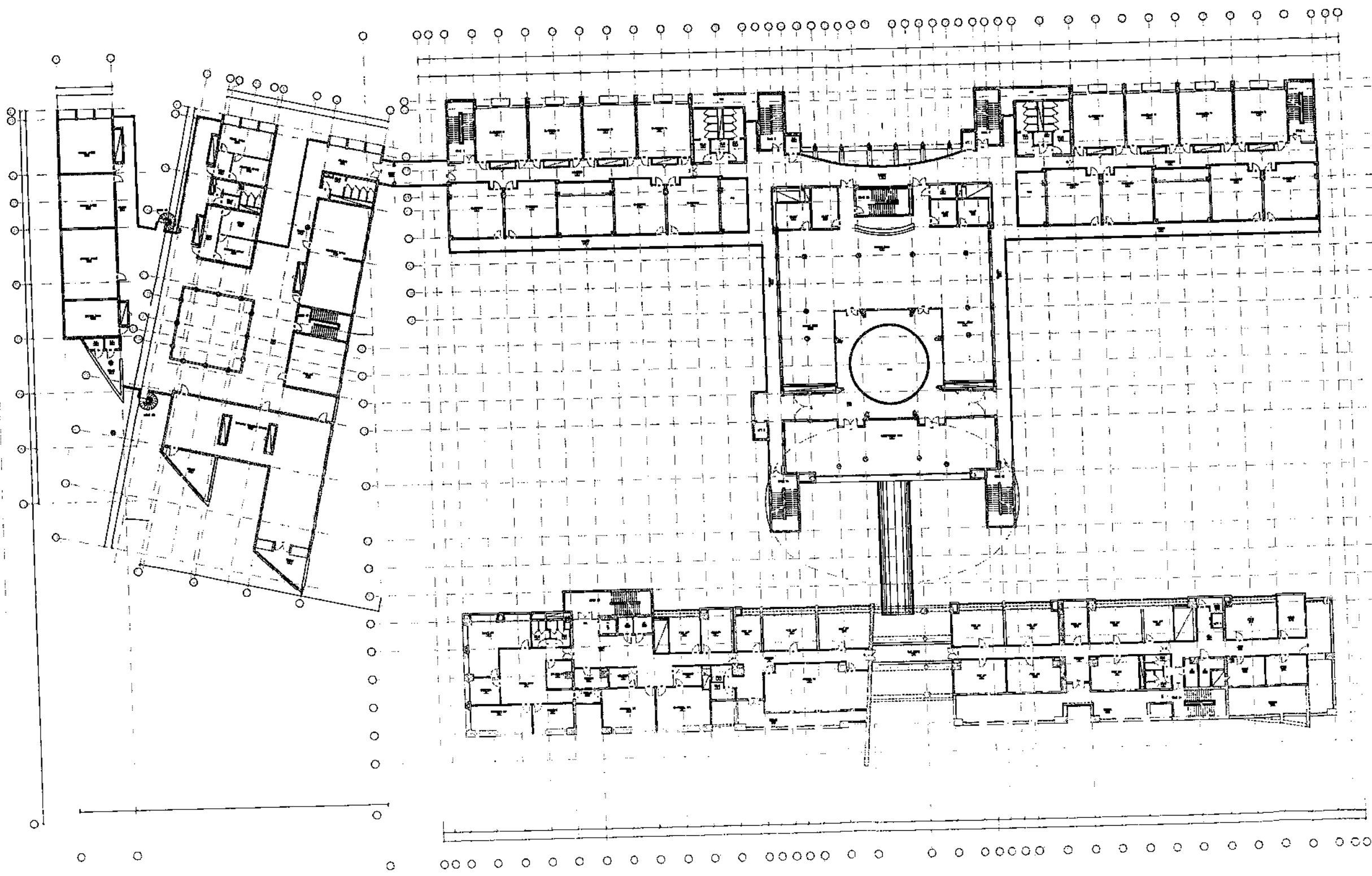
CONTRACTOR: ZOUHAYR
101, ZOUHAYR RD.
BEIRUT, HADATH AREA - P.O. BOX 114/2001 - BEIRUT



FACULTY OF LAW AND POLITICAL SCIENCES/BUILD
FIRST FLOOR PLAN
F.F.L. +40.25

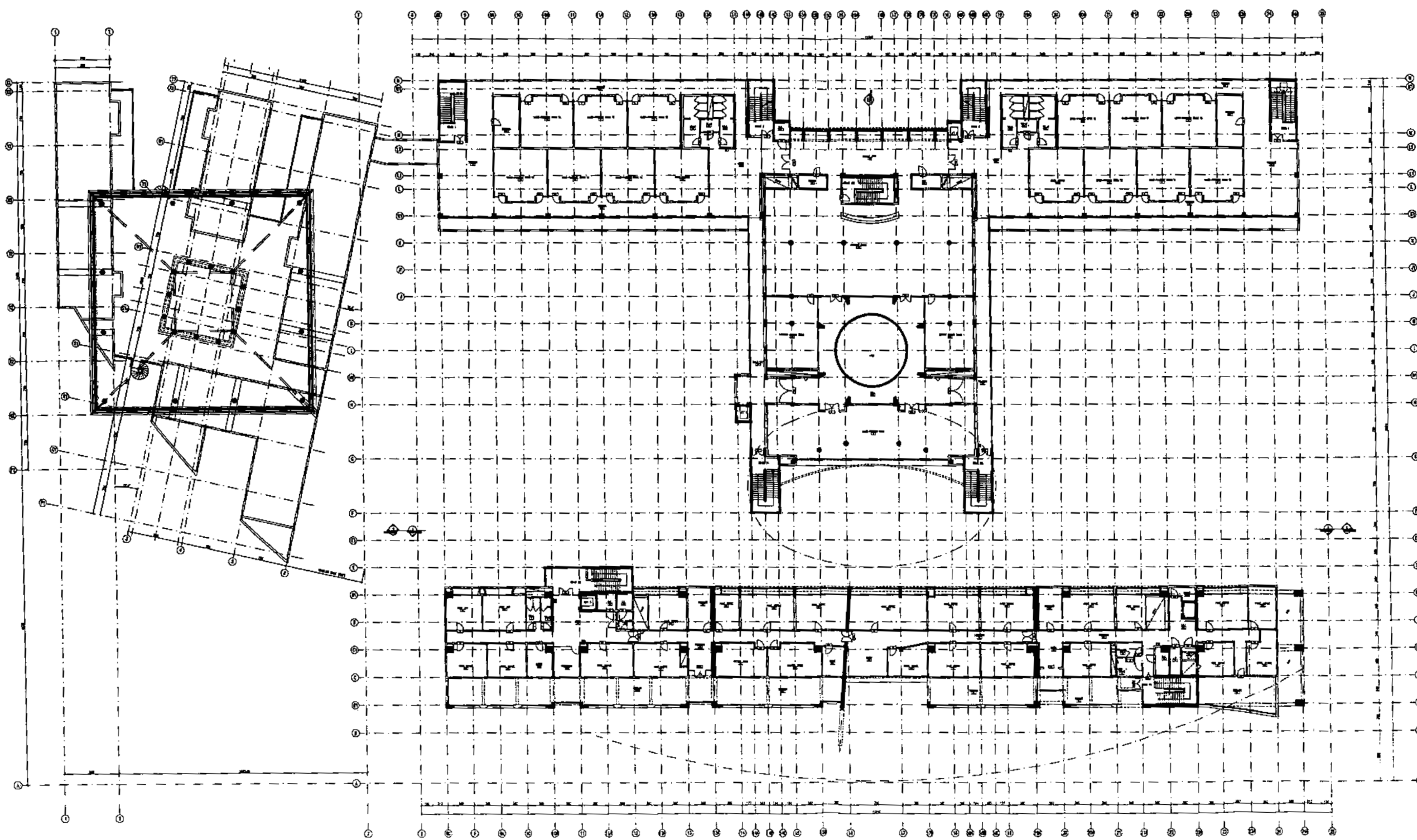
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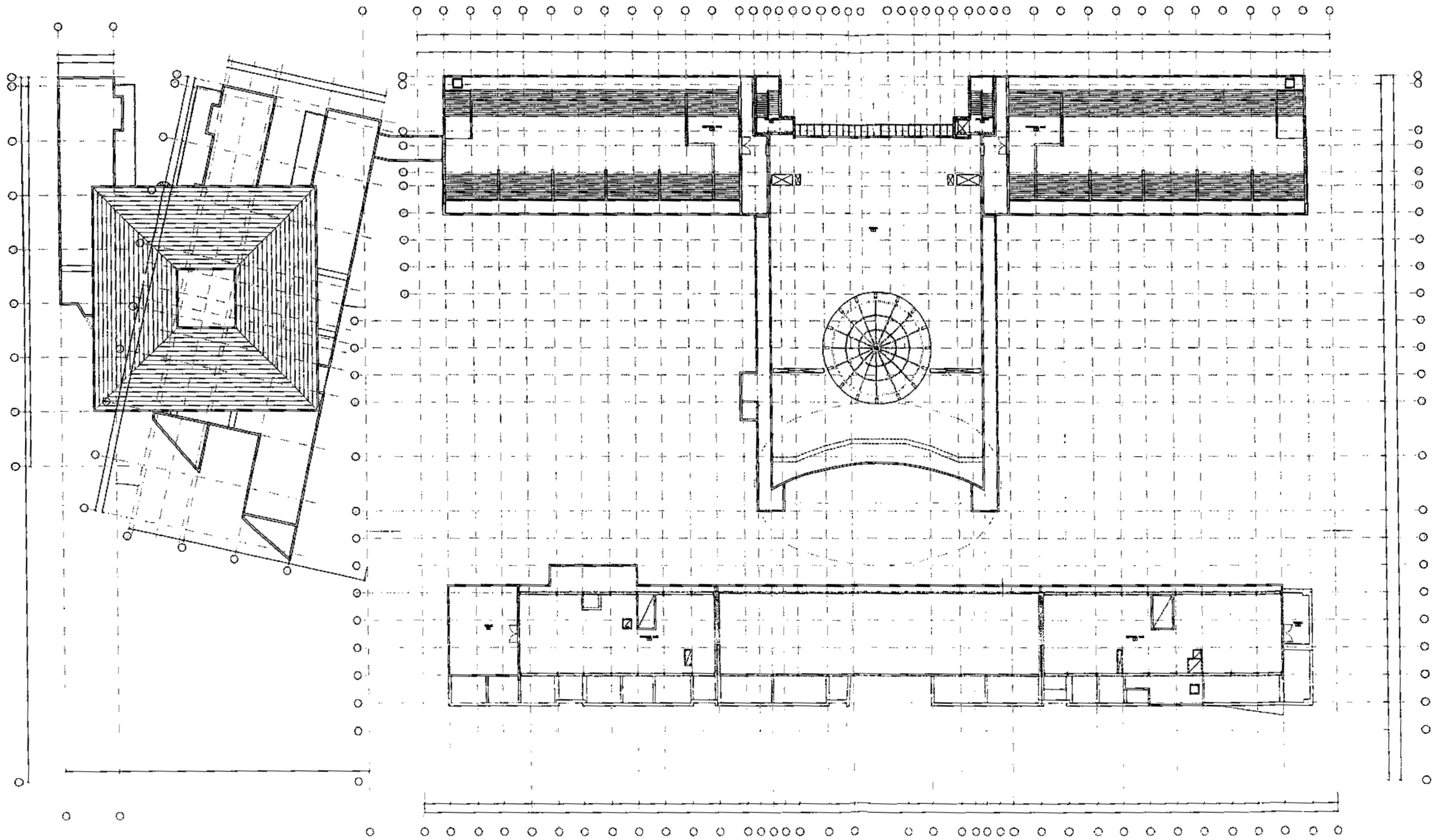
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 3. 100% FINISHED CEILING
 4. 100% FINISHED ROOFING
 5. 100% FINISHED EXTERIOR
 6. 100% FINISHED INTERIOR
 7. 100% FINISHED MECHANICAL
 8. 100% FINISHED ELECTRICAL
 9. 100% FINISHED PLUMBING
 10. 100% FINISHED PAINTING
 11. 100% FINISHED LANDSCAPING
 12. 100% FINISHED SITEWORK
 13. 100% FINISHED UTILITIES
 14. 100% FINISHED SECURITY
 15. 100% FINISHED ACCESSIBILITY
 16. 100% FINISHED SUSTAINABILITY
 17. 100% FINISHED ARCHITECTURAL
 18. 100% FINISHED INTERIOR DESIGN
 19. 100% FINISHED EXTERIOR DESIGN
 20. 100% FINISHED CONSTRUCTION



NO.	DATE	SUBJECT
LEBANESE UNIVERSITY CAMPUS HADATH		
OWNER:		LEBANESE UNIVERSITY, BORDJ BOUJOUR RUE DE LA LIBERTE - BEIRUT
CLIENT:		THE COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION BORDJ BOUJOUR - PARIS 11/FRANCE
DESIGN AND SUPERVISION:		LACED BORDJ BOUJOUR - BORDJ BOUJOUR ST. - PARIS 11/FRANCE BORDJ BOUJOUR - BORDJ BOUJOUR ST. - PARIS 11/FRANCE
CONTROL, MUNICIPAL:		AMU BORDJ BOUJOUR - BORDJ BOUJOUR ST. - PARIS 11/FRANCE BORDJ BOUJOUR - BORDJ BOUJOUR ST. - PARIS 11/FRANCE
CONTRACTOR:		TUNA BORDJ BOUJOUR - BORDJ BOUJOUR ST. - PARIS 11/FRANCE BORDJ BOUJOUR - BORDJ BOUJOUR ST. - PARIS 11/FRANCE
FACULTY OF LAW AND POLITICAL SCIENCES/BUILDING THIRD FLOOR PLAN F.F.L +48.75		
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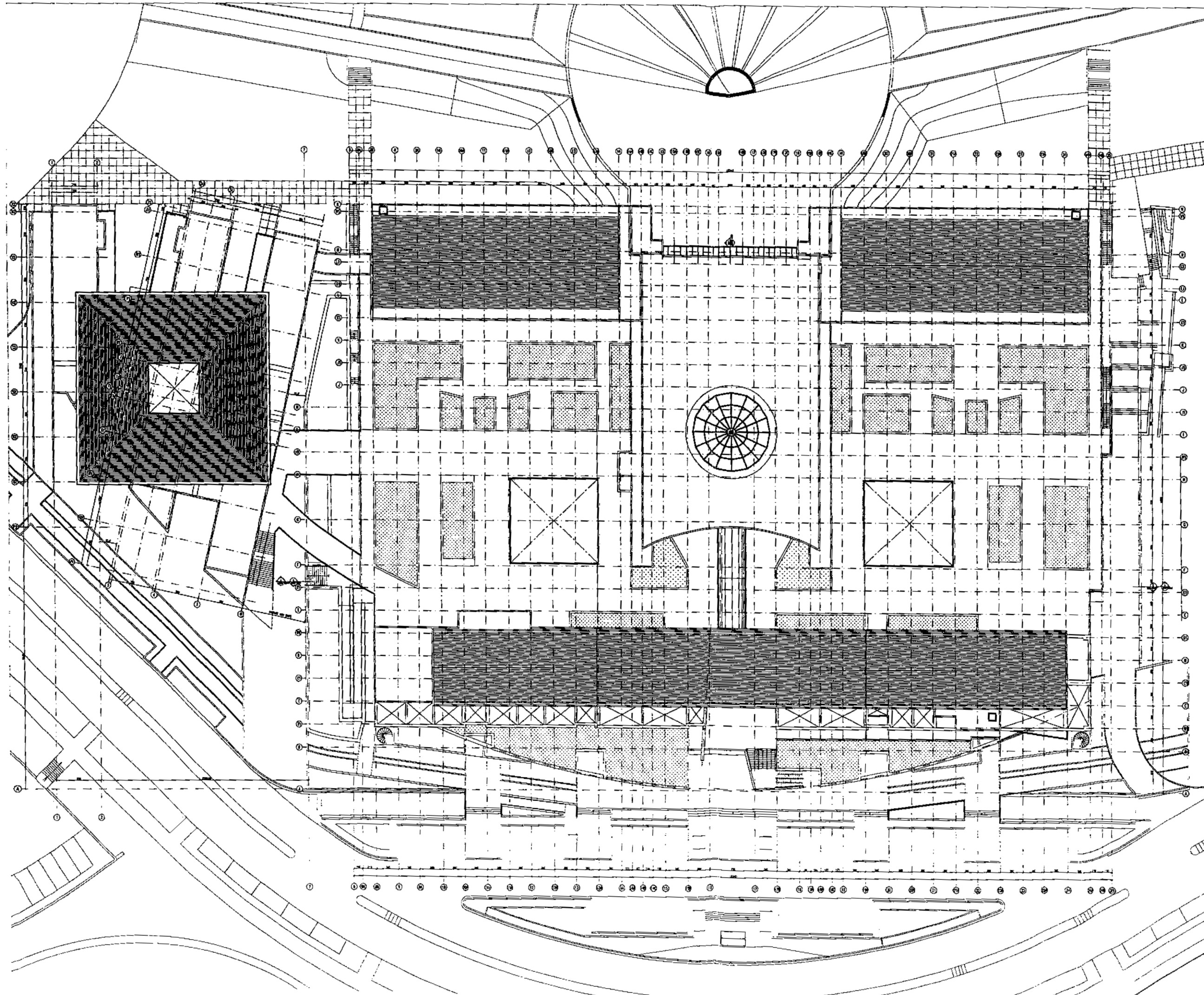
**AS BUILT DWG.
ARCHITECTURE**



REVISION	DATE	SHEET

NIST
 NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
 100 BUREAU OF BUILDINGS
 4800 LEONARD AVENUE
 BETHESDA, MARYLAND 20815-6340
 TEL: (301) 975-3000
 FAX: (301) 975-2940
 WWW: WWW.NIST.GOV

NOTES :



REVISION	DATE	REMARKS

**LEBANESE UNIVERSITY CAMPUS
HADATH**

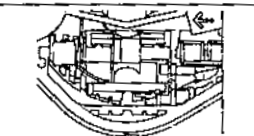
OWNER: **LEBANESE UNIVERSITY**
 10000, HADATH, BEIRUT, LEBANON

EMPLOYER: **THE COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION**
 BEIRUT, LEBANON - PHASE 1 (1978)

DESIGN AND SUPERVISOR: **LACCO**
 10000, HADATH, BEIRUT, LEBANON

CONTROL SURVEIL: **AMPC**
 10000, HADATH, BEIRUT, LEBANON

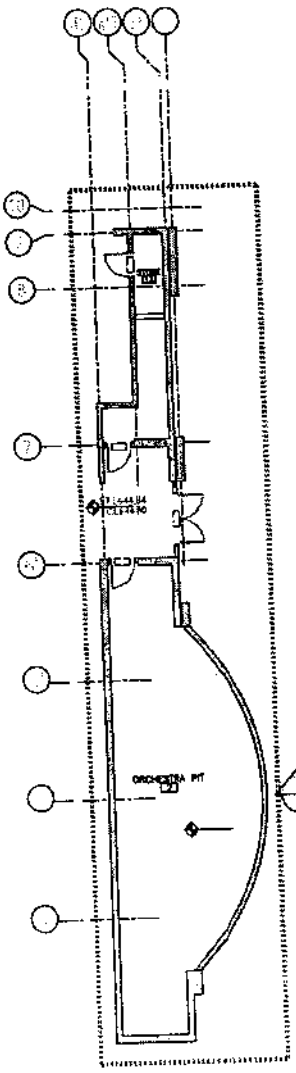
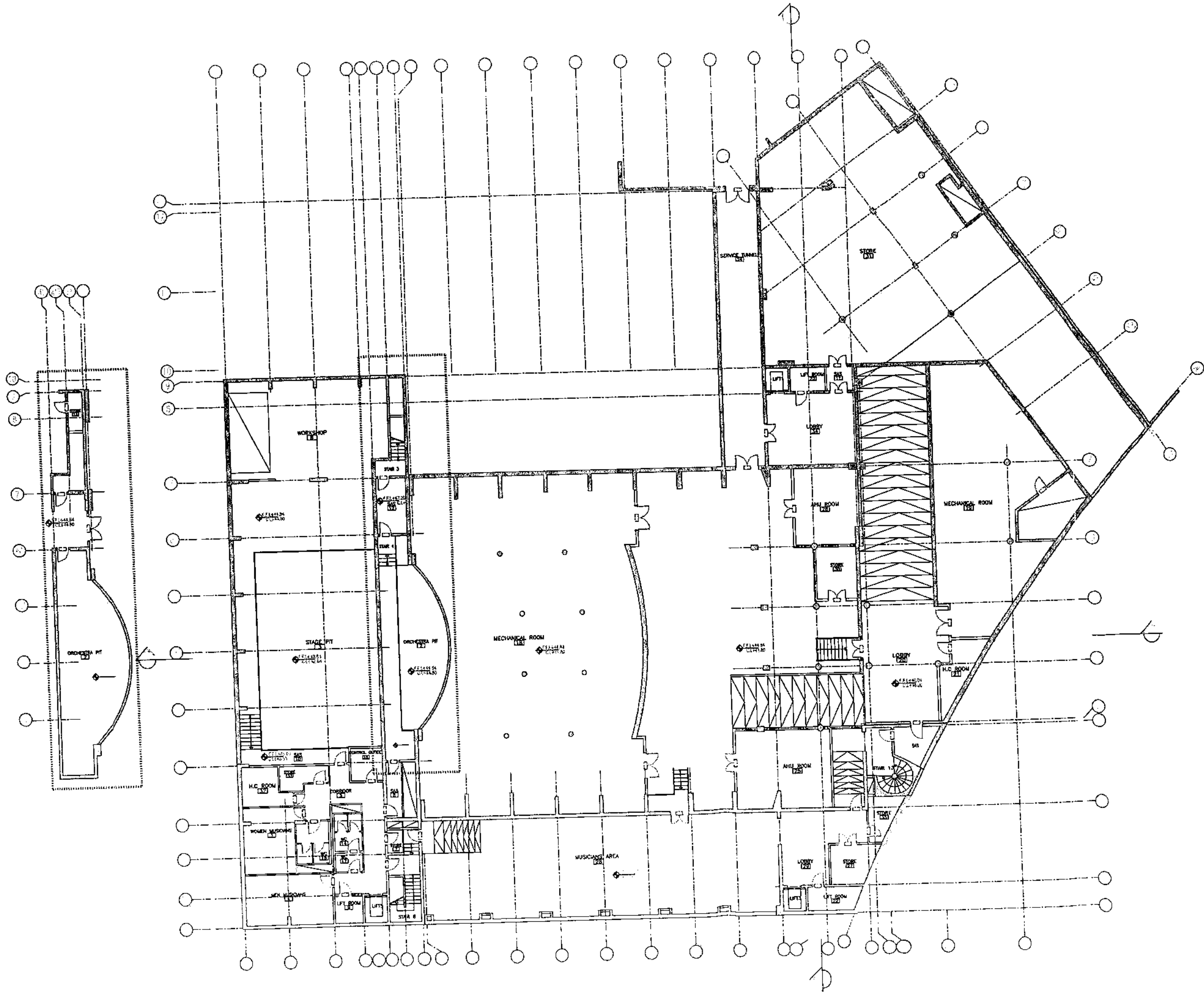
CONTRACTOR: **ZOUHAR**
 10000, HADATH, BEIRUT, LEBANON



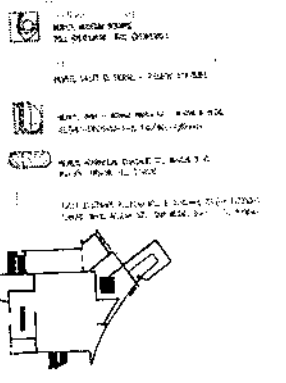
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ROOF FLOOR PLAN**

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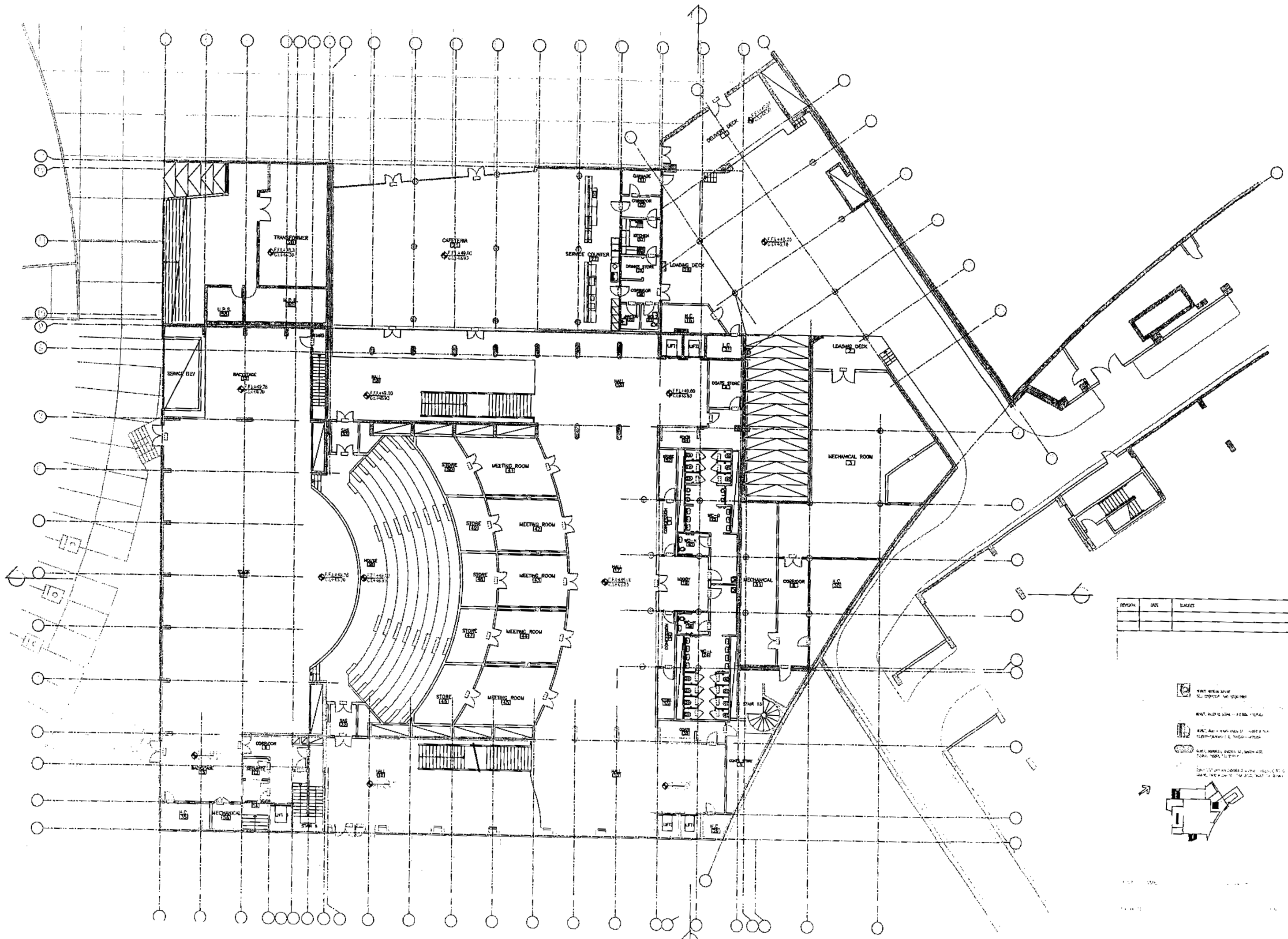
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ARCHITECTURE**



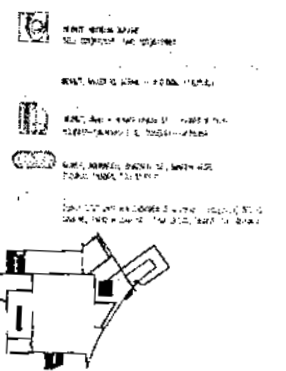
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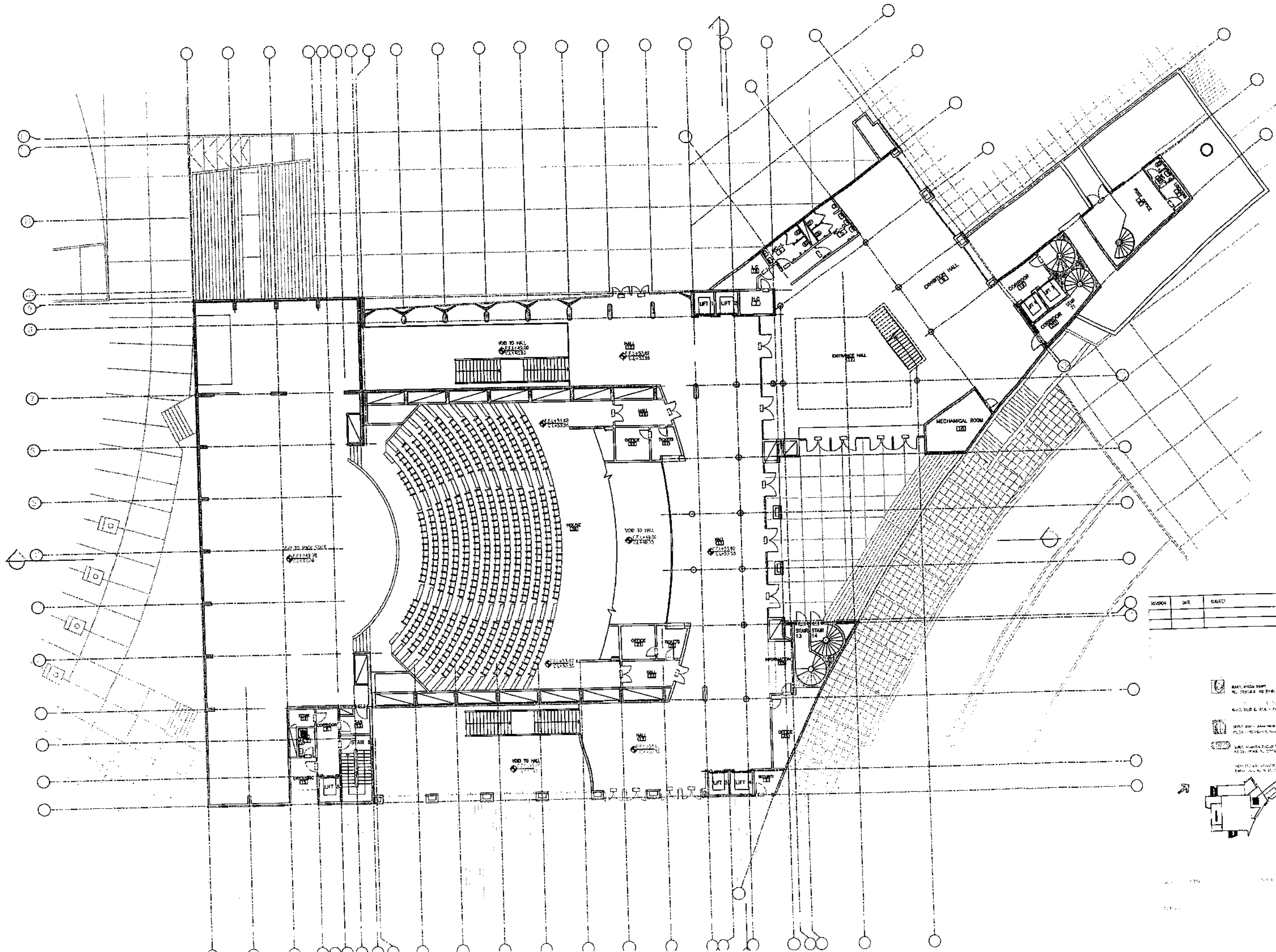
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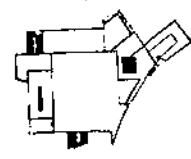


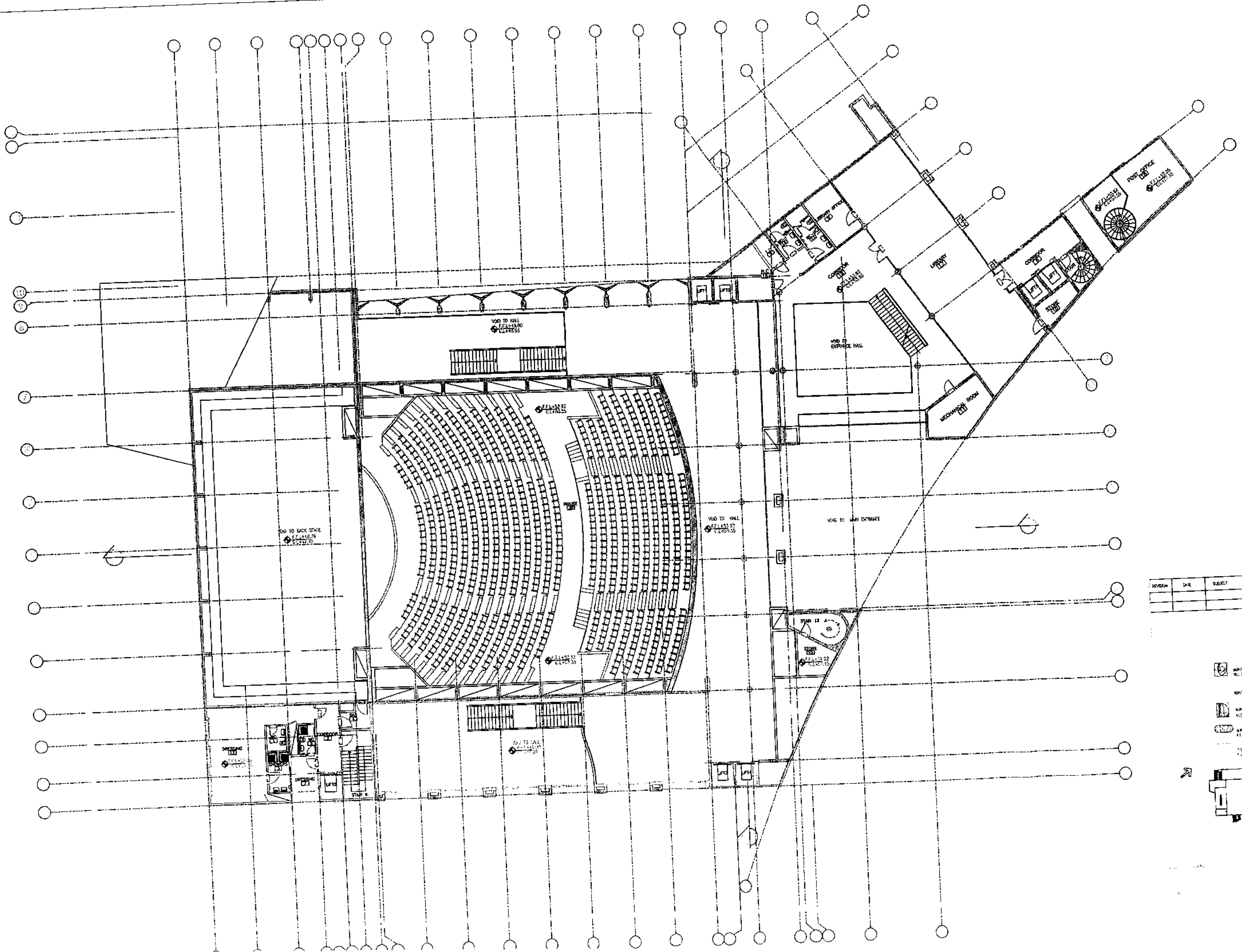
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
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-  WALL WITH DOOR
-  WALL WITH WINDOW
-  DOOR
-  WINDOW

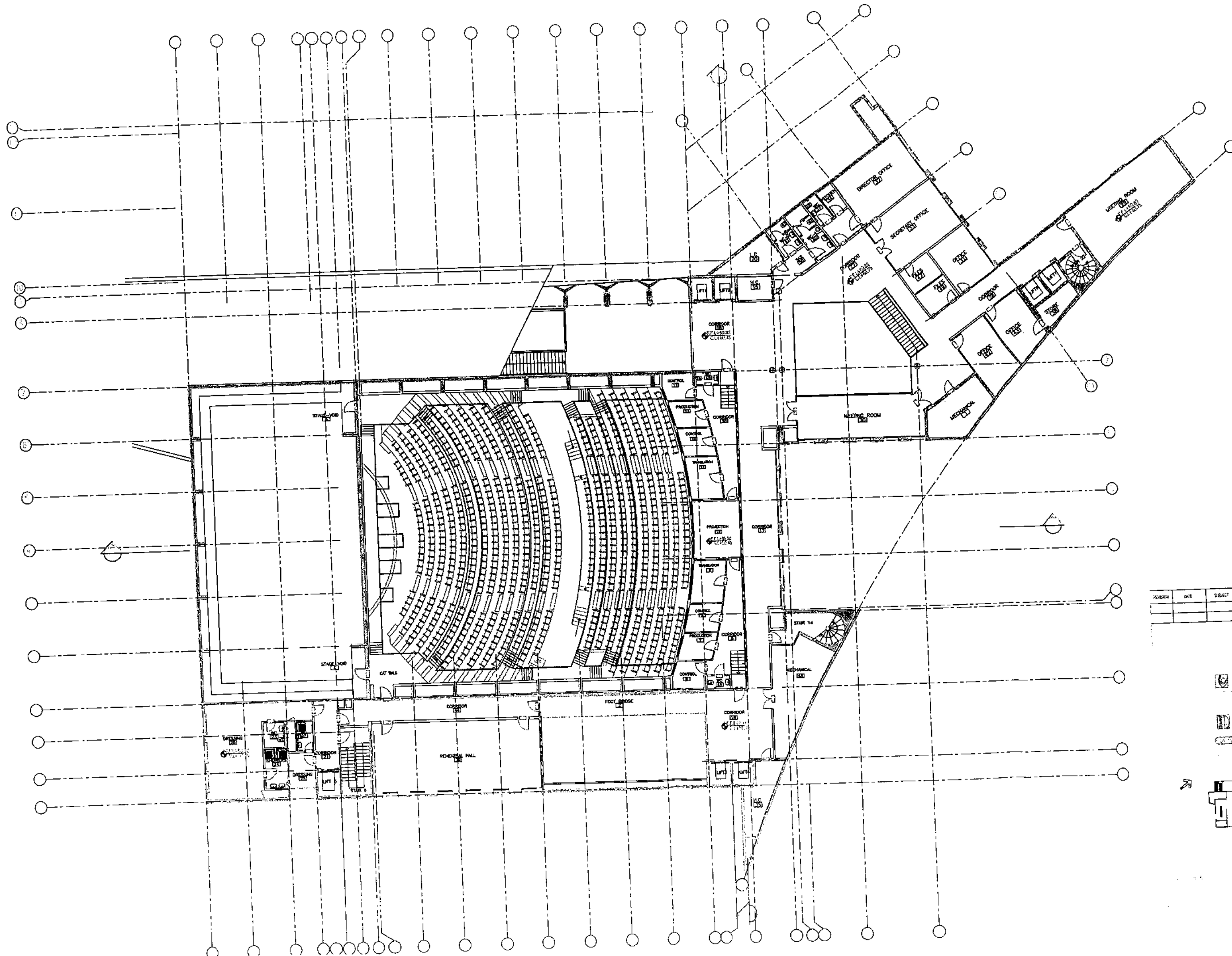




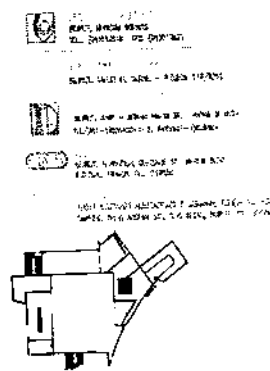
REVISION	DATE	BY/CHK

- 
 HALL, VOID, STAIR, ELEVATOR, ESCAPE ROUTE
- 
 HALL, VOID, STAIR, ELEVATOR, ESCAPE ROUTE
- 
 HALL, VOID, STAIR, ELEVATOR, ESCAPE ROUTE
- 
 HALL, VOID, STAIR, ELEVATOR, ESCAPE ROUTE





PERSON	DATE	REMARKS



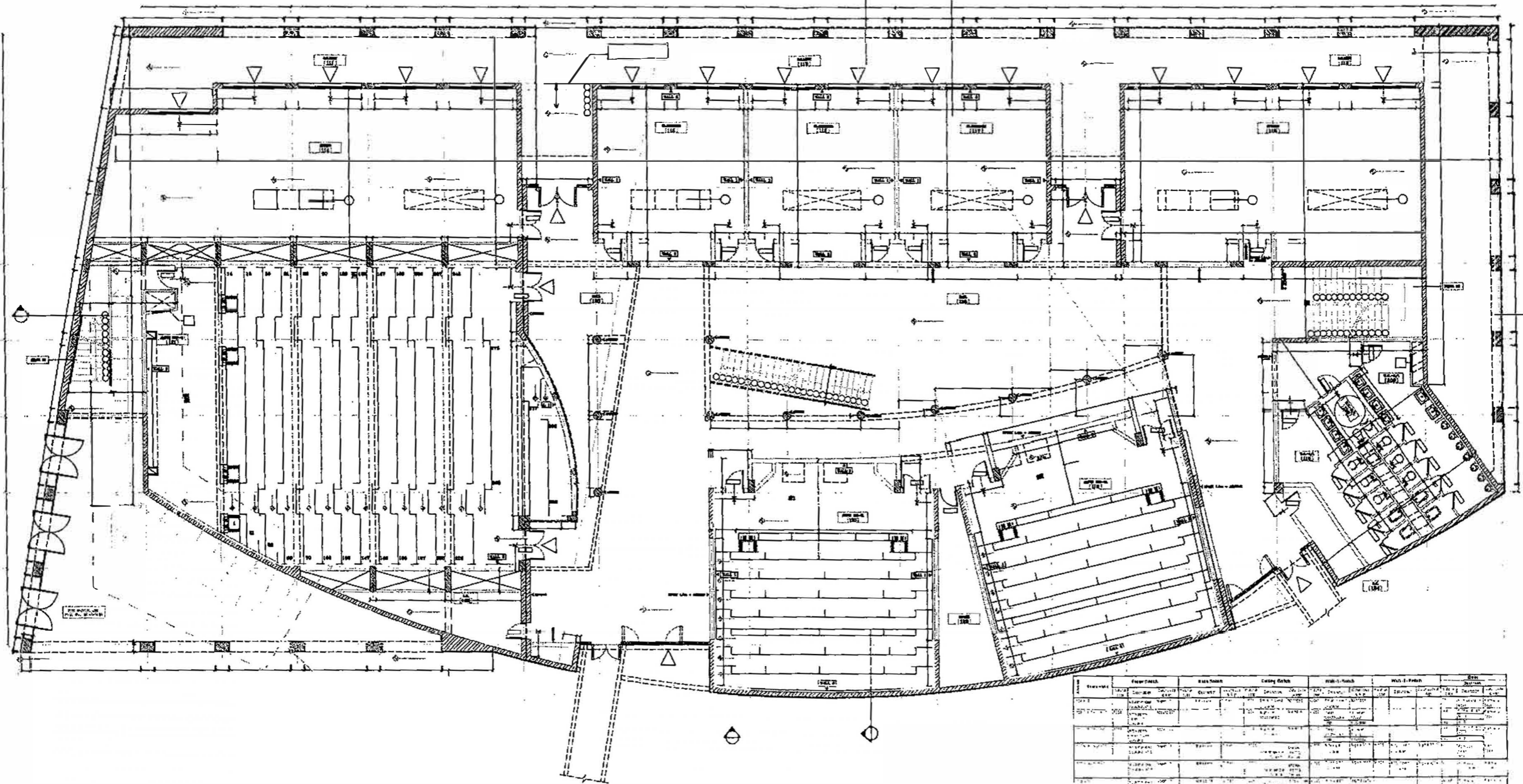


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SCALE

NOV 1951

WS2
401



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104	Office	120
105	Office	120
106	Office	120
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120	Office	120



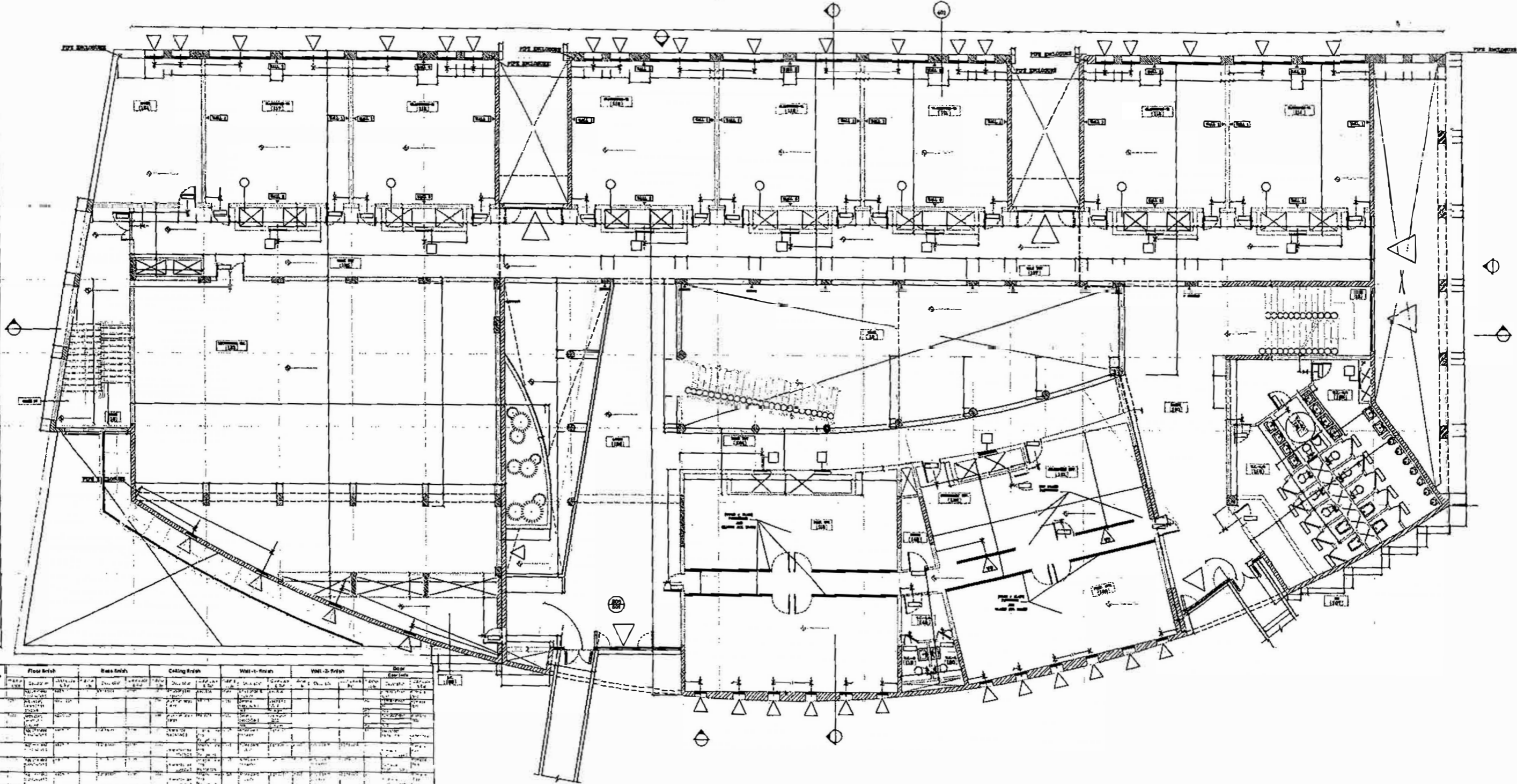
VALLET L.L. ROMA

ALBERGO

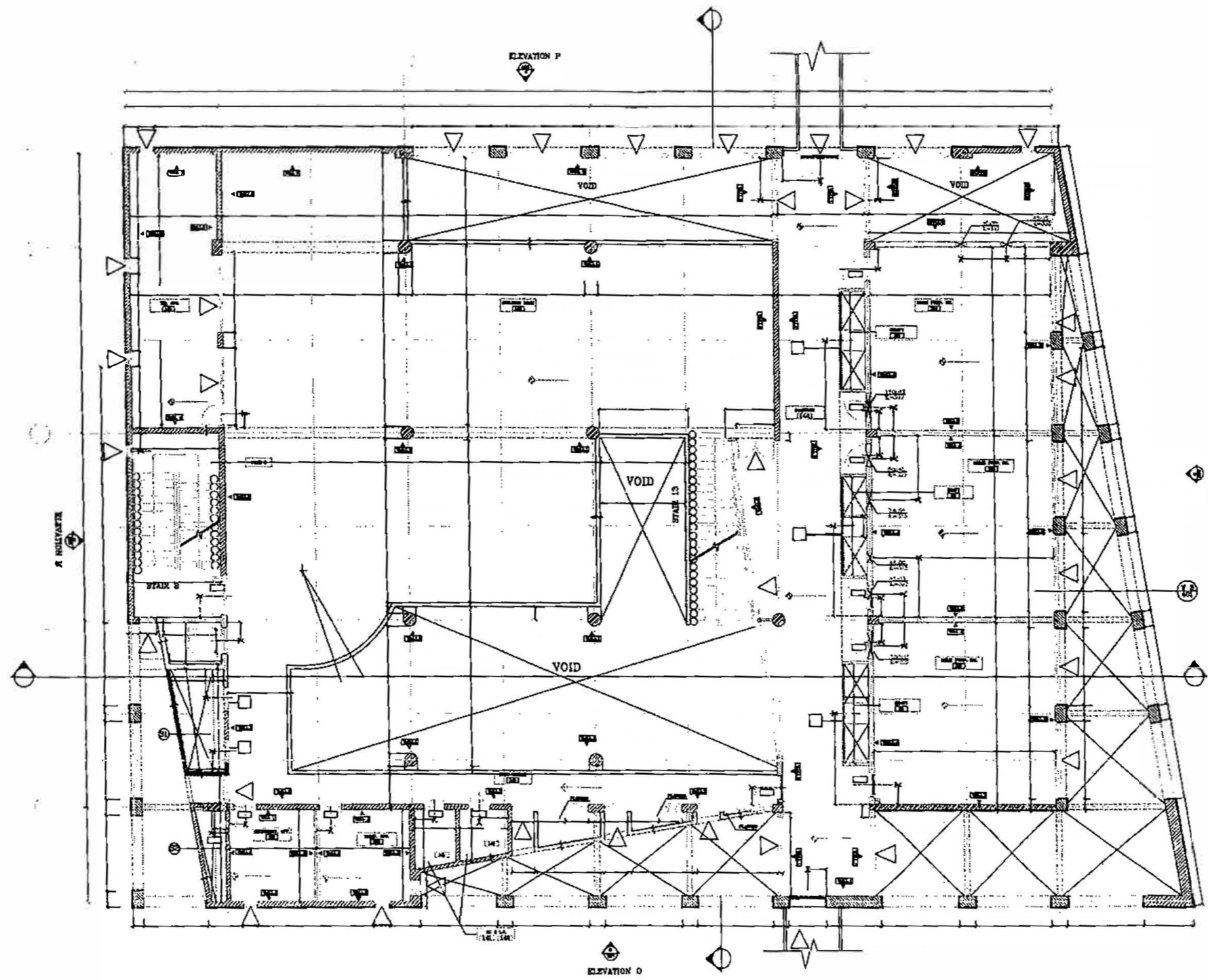
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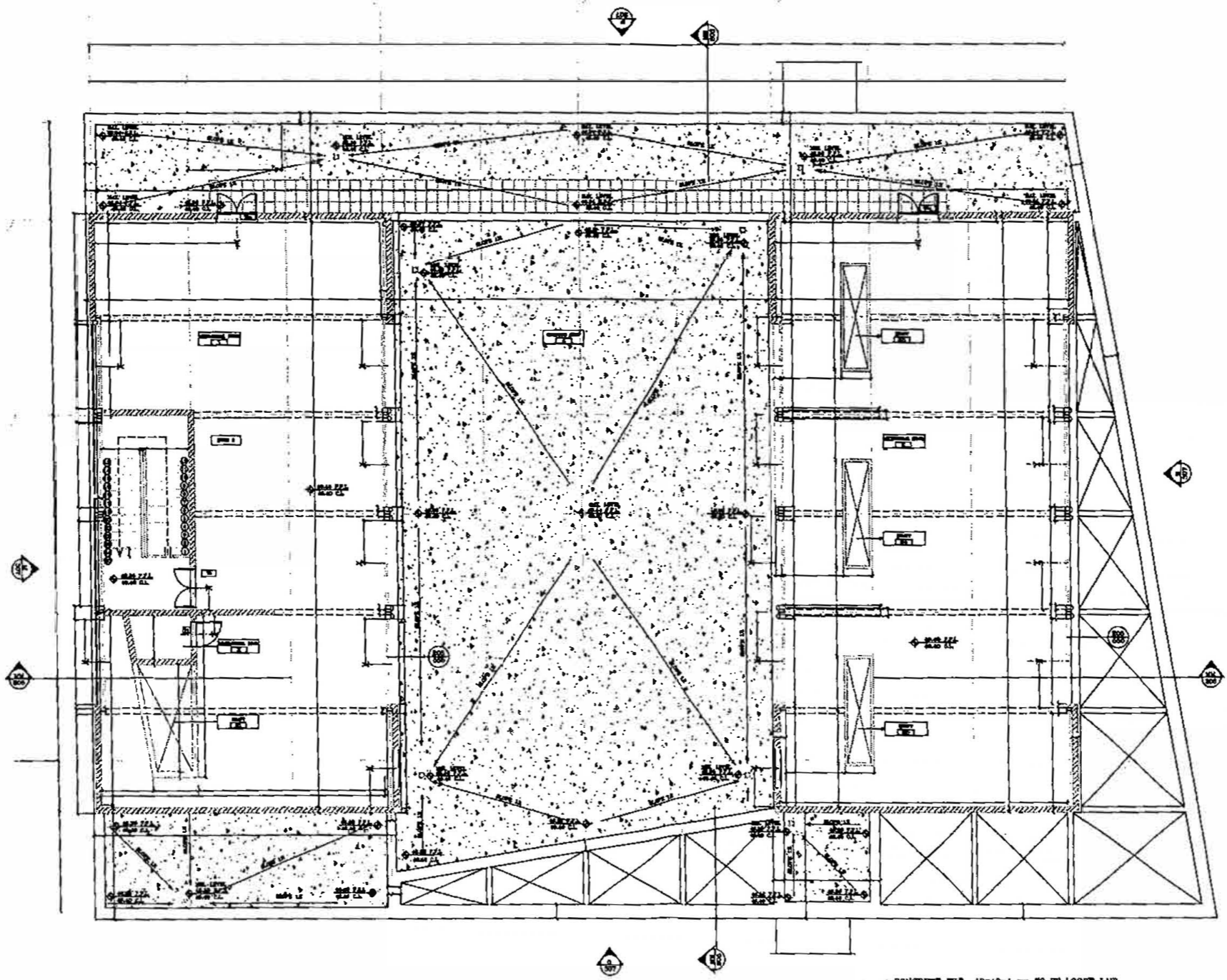
1/1



Scheda n.°	Pavimento		Mura		Tetto		Mura		Mura		Sopra	
	Sp. (m)	Struttura	Sp. (m)	Struttura	Sp. (m)	Struttura	Sp. (m)	Struttura	Sp. (m)	Struttura	Sp. (m)	Struttura
1	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
2	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
3	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
4	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
5	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
6	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
7	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
8	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
9	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
10	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
11	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
12	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
13	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
14	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
15	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
16	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
17	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
18	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
19	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
20	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
21	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
22	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
23	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
24	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
25	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
26	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
27	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
28	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
29	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...
30	0,10	...	0,20	...	0,15	...	0,25	...	0,30	...	0,40	...



Item No.	Quantity	Description	Unit	Remarks
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
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36	1
37	1
38	1
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48	1
49	1
50	1

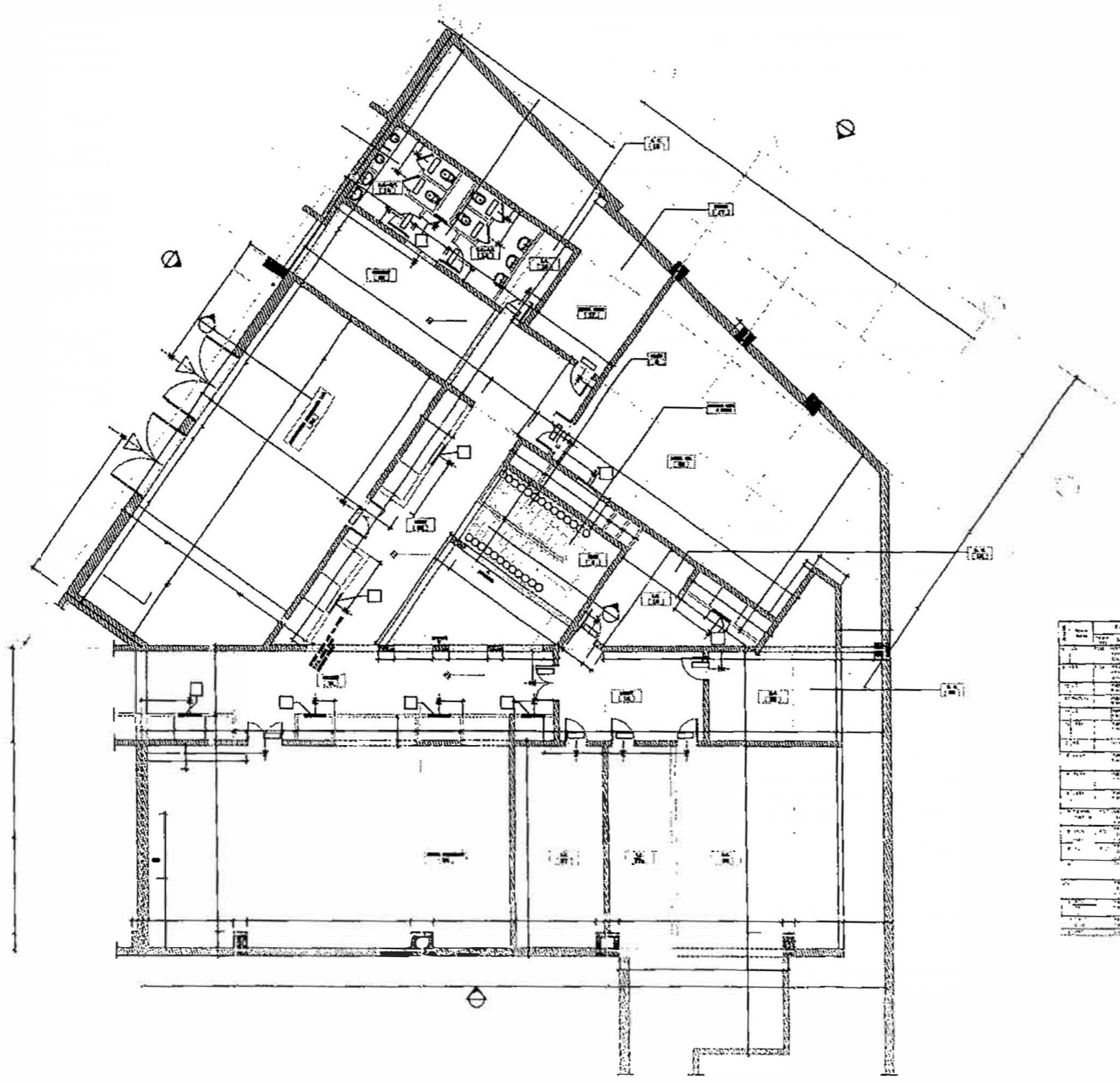


CONCRETE TILE 40x40x4 cm TO BE LOOSE LAID

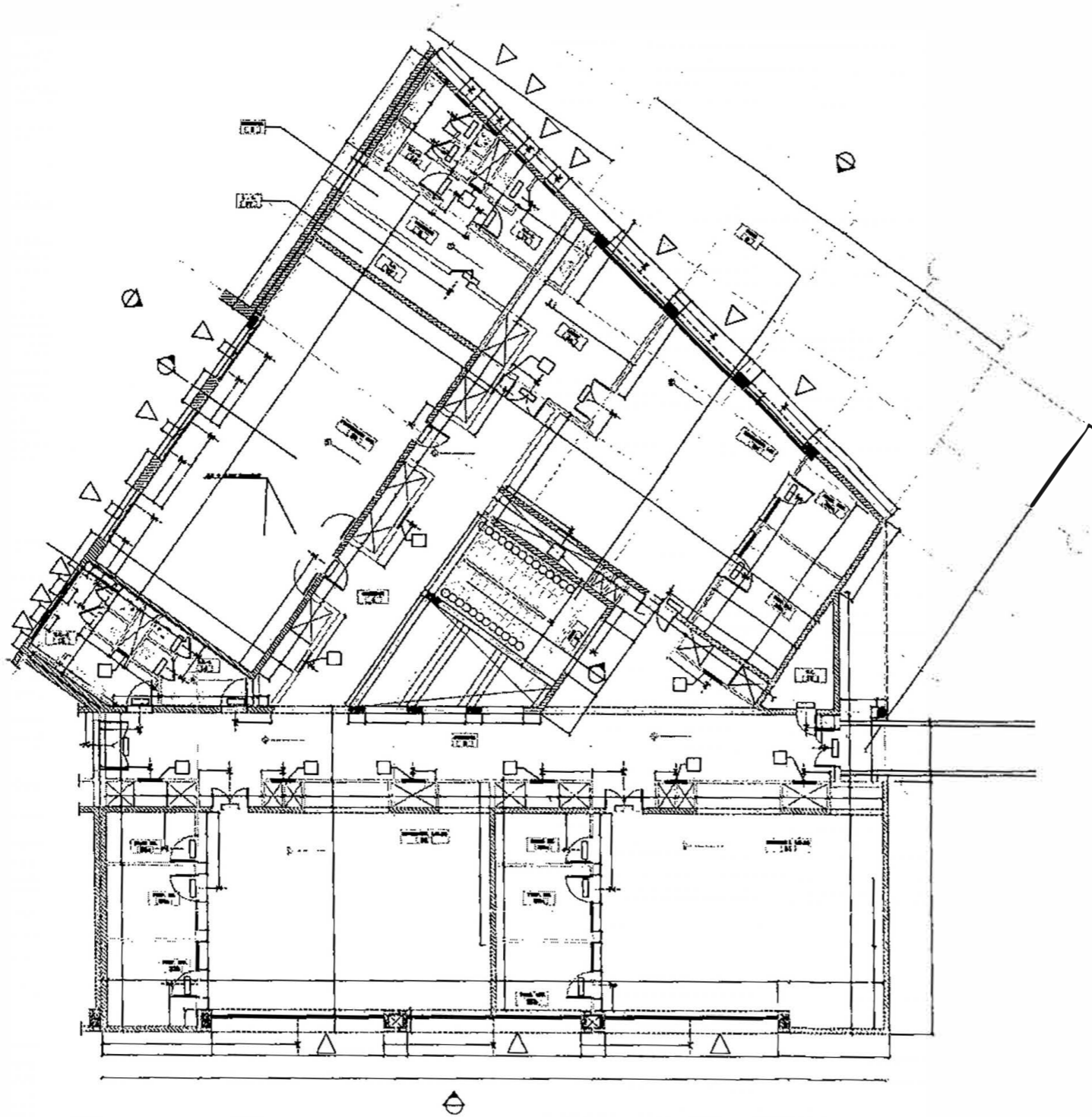
GRAVEL 2.5 cm SIZE

- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 9002 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR LOCATIONS)

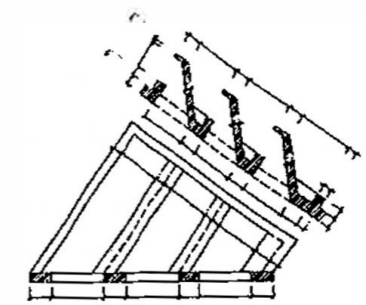
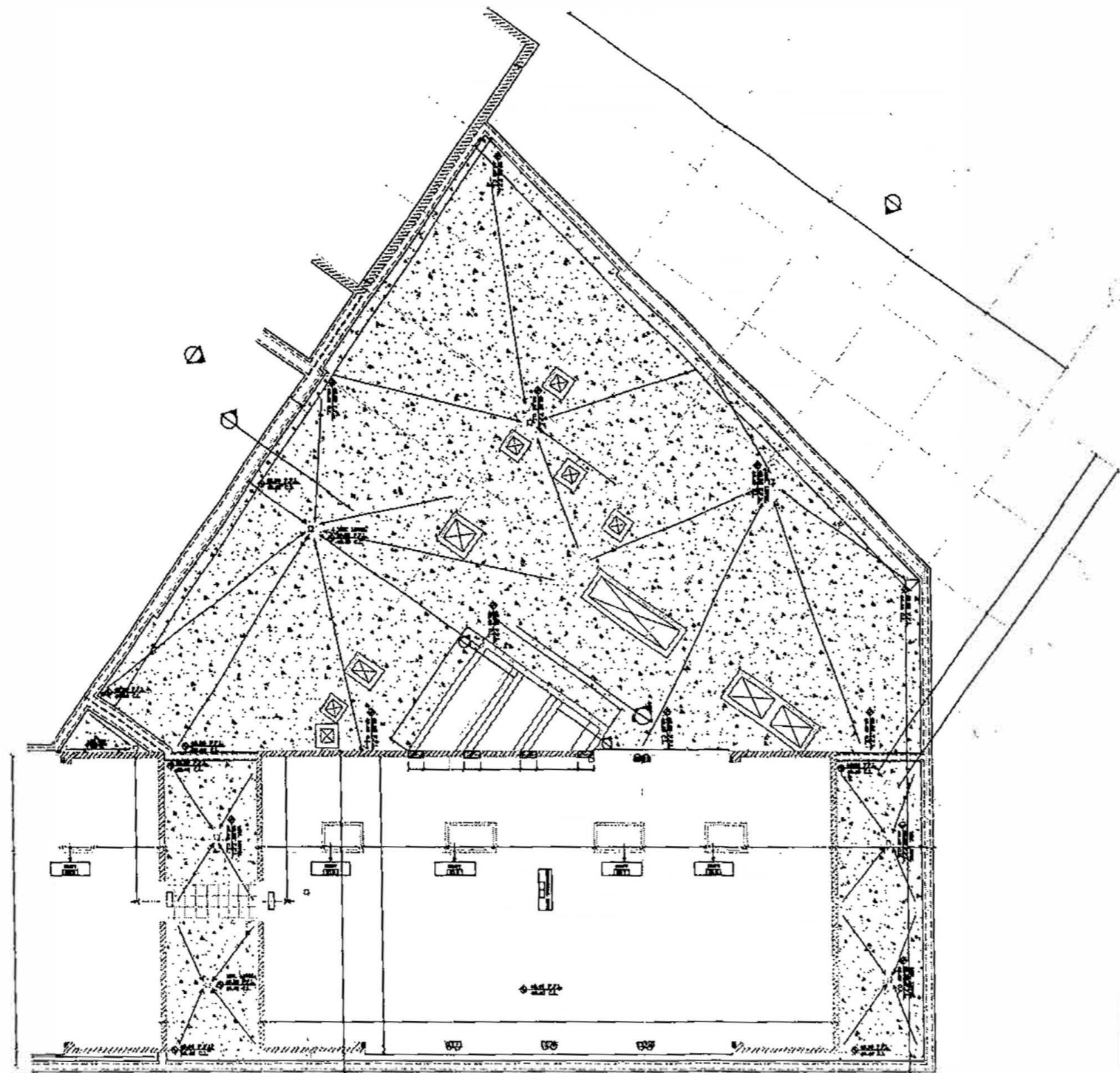
6





No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Remarks	Notes
1	Office	100	1000		
2	Conference Room	150	1500		
3	Meeting Room	120	1200		
4	Reception	80	800		
5	Waiting Area	200	2000		
6	Corridor	100	1000		
7	Restroom	50	500		
8	Storage	120	1200		
9	Break Room	180	1800		
10	Kitchen	100	1000		
11	Janitor's Closet	30	300		
12	Entrance	150	1500		
13	Exit	50	500		
14	Staircase	100	1000		
15	Elevator	50	500		
16	Storage Room	100	1000		
17	Office	100	1000		
18	Office	100	1000		
19	Office	100	1000		
20	Office	100	1000		
21	Office	100	1000		
22	Office	100	1000		
23	Office	100	1000		
24	Office	100	1000		
25	Office	100	1000		
26	Office	100	1000		
27	Office	100	1000		
28	Office	100	1000		
29	Office	100	1000		
30	Office	100	1000		



Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Remarks	Notes	Remarks	Notes
101	Office	120	1440				
102	Office	120	1440				
103	Office	120	1440				
104	Office	120	1440				
105	Office	120	1440				
106	Office	120	1440				
107	Office	120	1440				
108	Office	120	1440				
109	Office	120	1440				
110	Office	120	1440				
111	Office	120	1440				
112	Office	120	1440				
113	Office	120	1440				
114	Office	120	1440				
115	Office	120	1440				
116	Office	120	1440				
117	Office	120	1440				
118	Office	120	1440				
119	Office	120	1440				
120	Office	120	1440				



SKYLIGHT DETAIL 1-1

 : CONCRETE TILES 40x40x4 cm TO BE LOSTE LAD
 : GRAVEL 2.5 cm SIZE

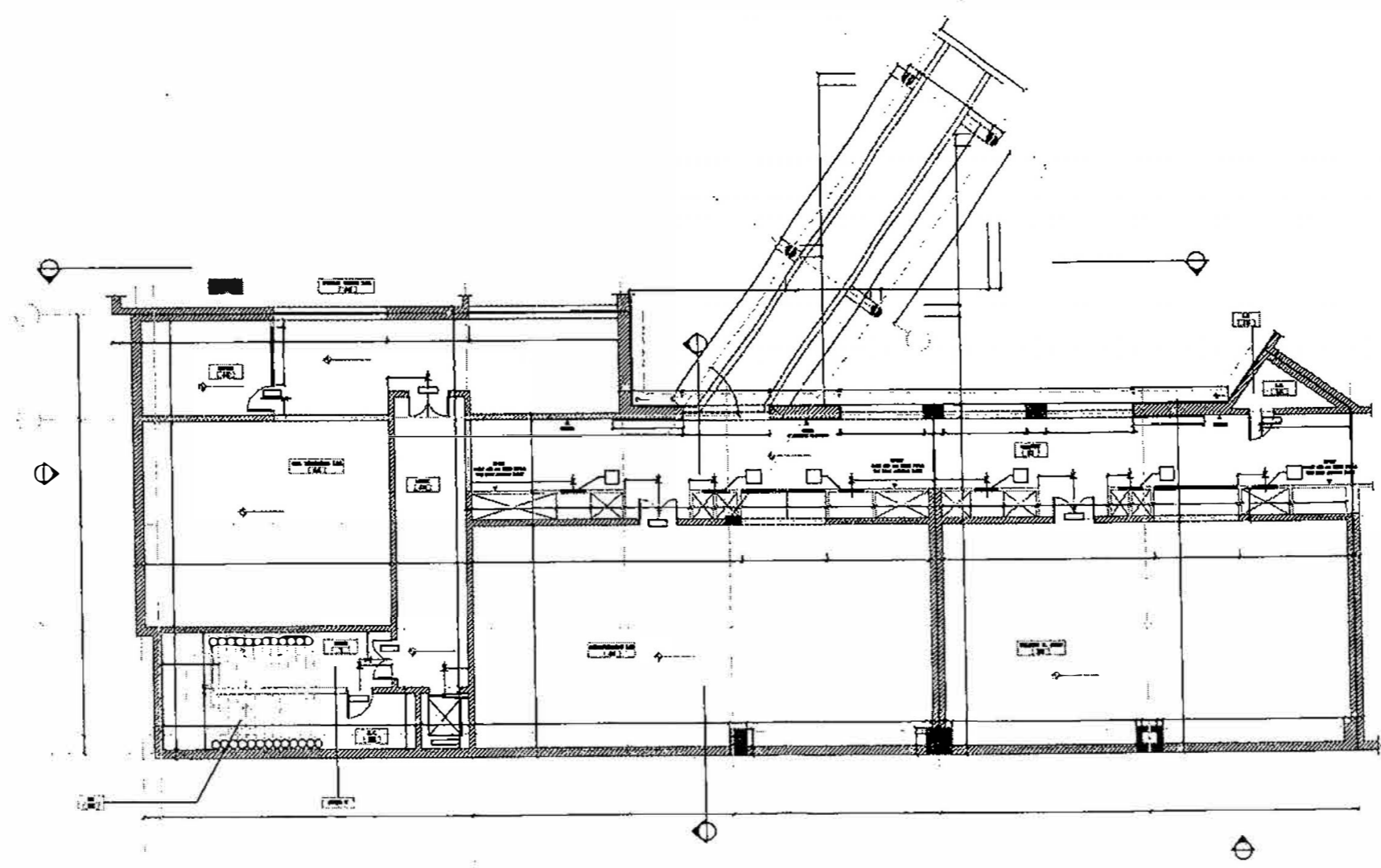
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS AJOR RAL 9002 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EVERY FOR PASSANTS (SEE PLAN FOR LOCATIONS)



PROJECT NO. 100-100-100
 DRAWING NO. 100-100-100

SCALE 1/4" = 1'-0"

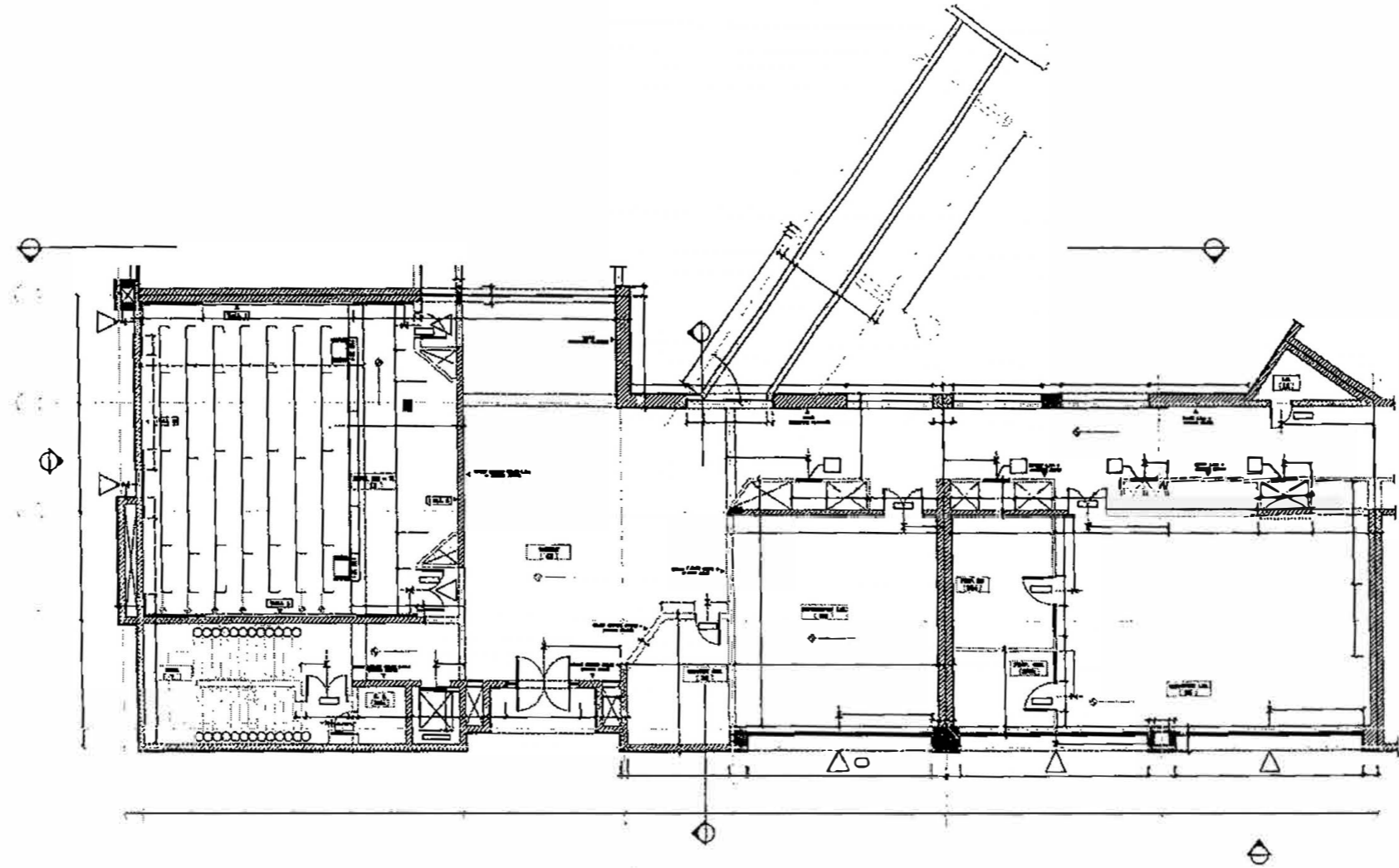
100



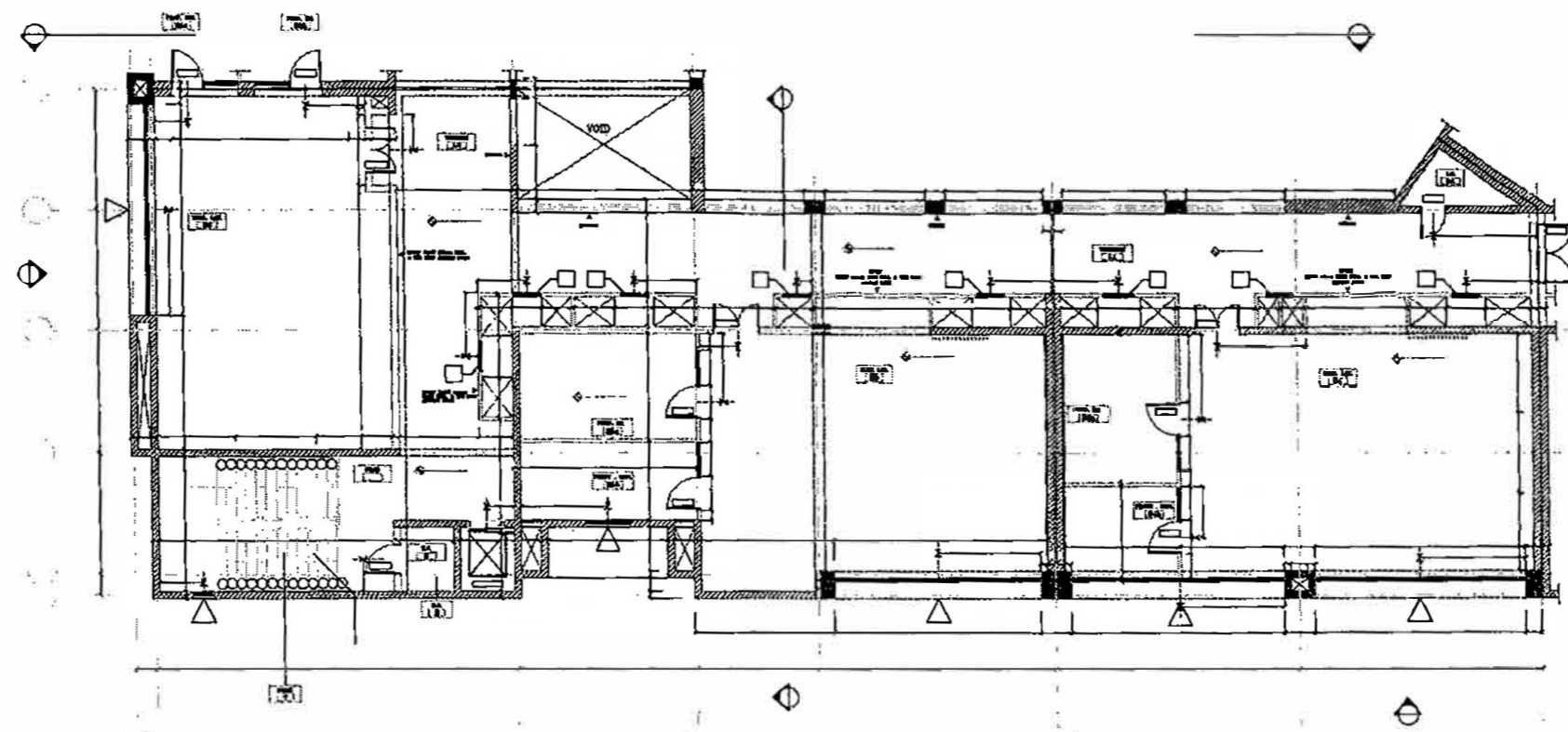
NO.	DESCRIPTION	QTY	UNIT	AMOUNT	REMARKS
1	CONCRETE	100	CU YD	100	
2	STEEL	50	TON	50	
3	BRICK	1000	SQ YD	1000	
4	ROOFING	100	SQ YD	100	
5	MECHANICAL	100	HR	100	
6	ELECTRICAL	100	HR	100	
7	PAINT	100	SQ YD	100	
8	PLASTER	100	SQ YD	100	
9	GLASS	100	SQ YD	100	
10	DOORS	100	NO.	100	
11	WINDOWS	100	NO.	100	
12	CEILING	100	SQ YD	100	
13	FLOORING	100	SQ YD	100	
14	MECHANICAL	100	HR	100	
15	ELECTRICAL	100	HR	100	
16	PAINT	100	SQ YD	100	
17	PLASTER	100	SQ YD	100	
18	GLASS	100	SQ YD	100	
19	DOORS	100	NO.	100	
20	WINDOWS	100	NO.	100	



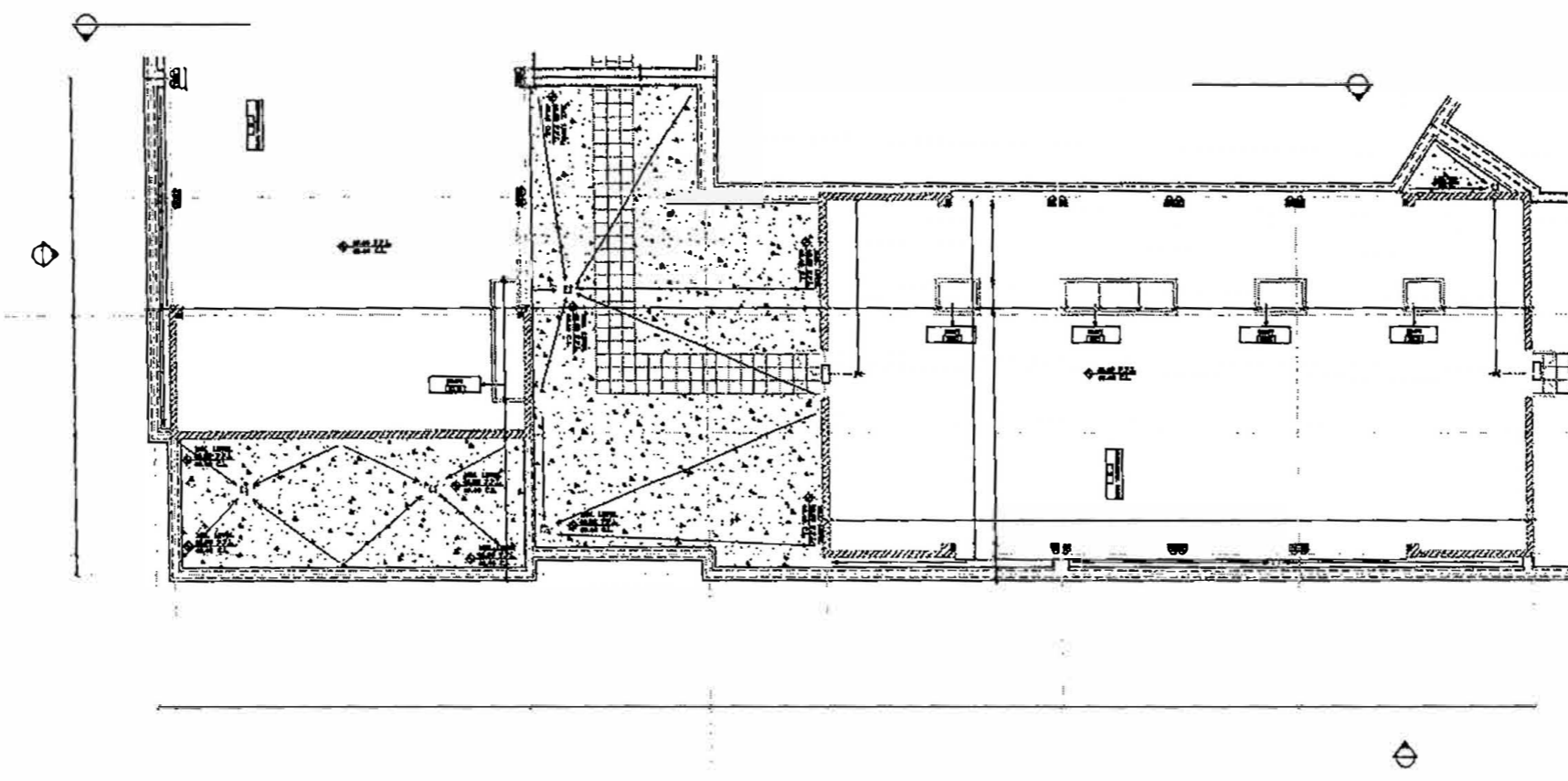
SCALE 1/50





No.	Quantity	Unit	Description	Remarks
1	1.00	m ²	Plaster work on walls	
2	1.00	m ²	Plaster work on ceiling	
3	1.00	m ²	Plaster work on floor	
4	1.00	m ²	Paint work on walls	
5	1.00	m ²	Paint work on ceiling	
6	1.00	m ²	Paint work on floor	
7	1.00	m ²	Carpet work on floor	
8	1.00	m ²	Wooden floor work	
9	1.00	m ²	Concrete floor work	
10	1.00	m ²	Brickwork on walls	
11	1.00	m ²	Brickwork on ceiling	
12	1.00	m ²	Brickwork on floor	
13	1.00	m ²	Brickwork on roof	
14	1.00	m ²	Brickwork on chimney	
15	1.00	m ²	Brickwork on staircase	
16	1.00	m ²	Brickwork on partition	
17	1.00	m ²	Brickwork on door	
18	1.00	m ²	Brickwork on window	
19	1.00	m ²	Brickwork on balcony	
20	1.00	m ²	Brickwork on terrace	

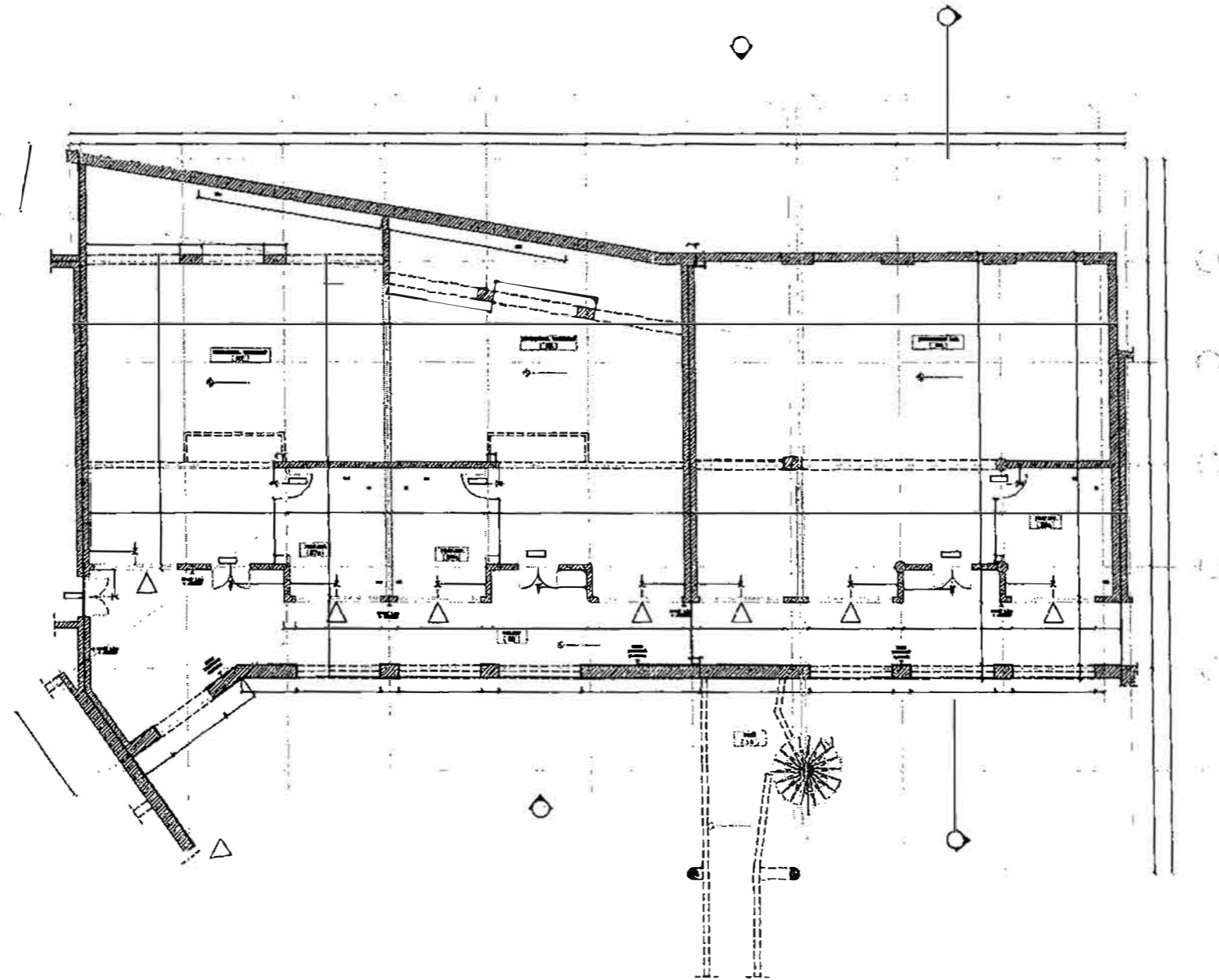


No.	Partname	Material	Quantity	Unit	Remarks
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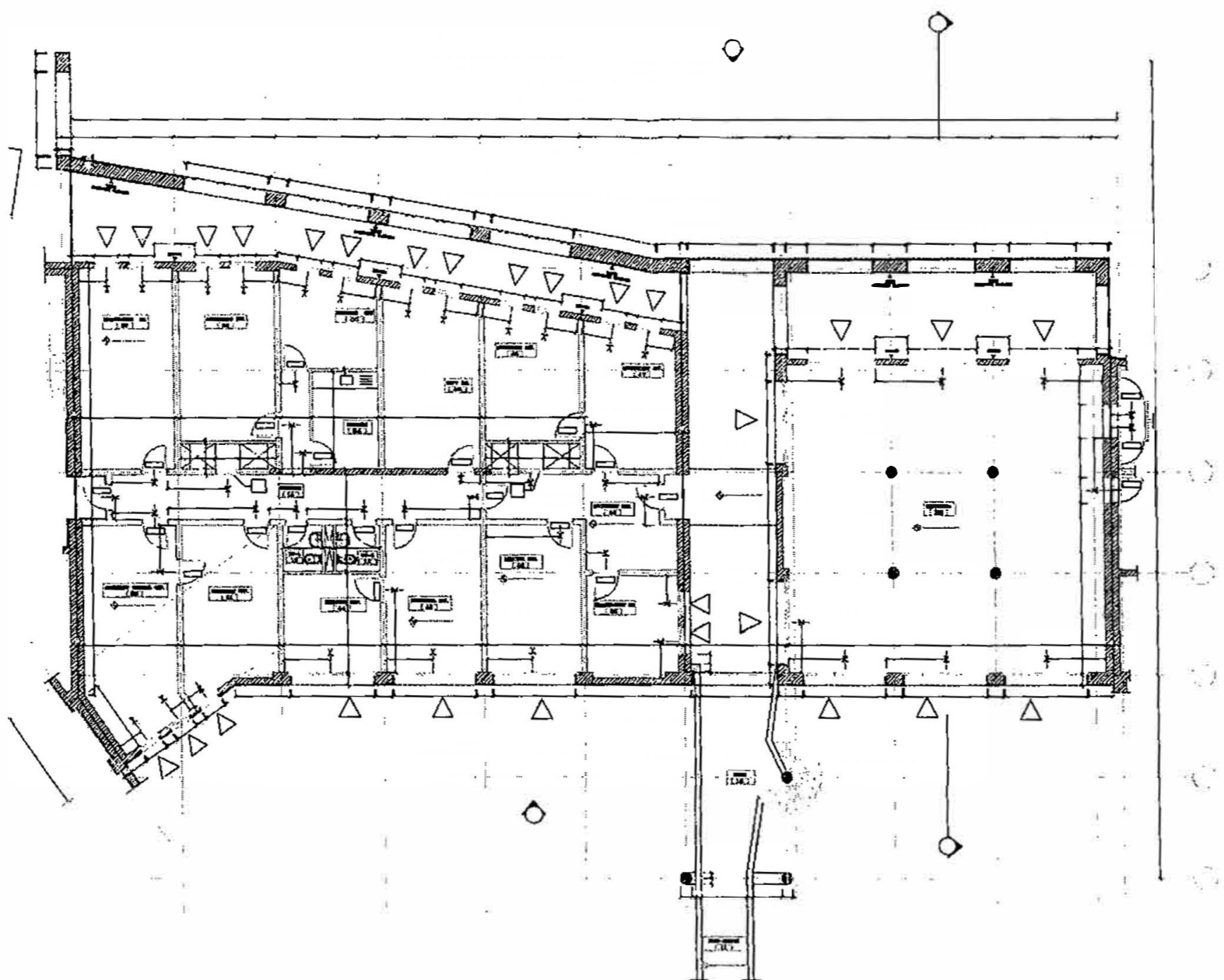


 : CONCRETE TILE 40x40cm TO BE LOOSE LAID
 : GRAVEL 2.5 cm SIZE

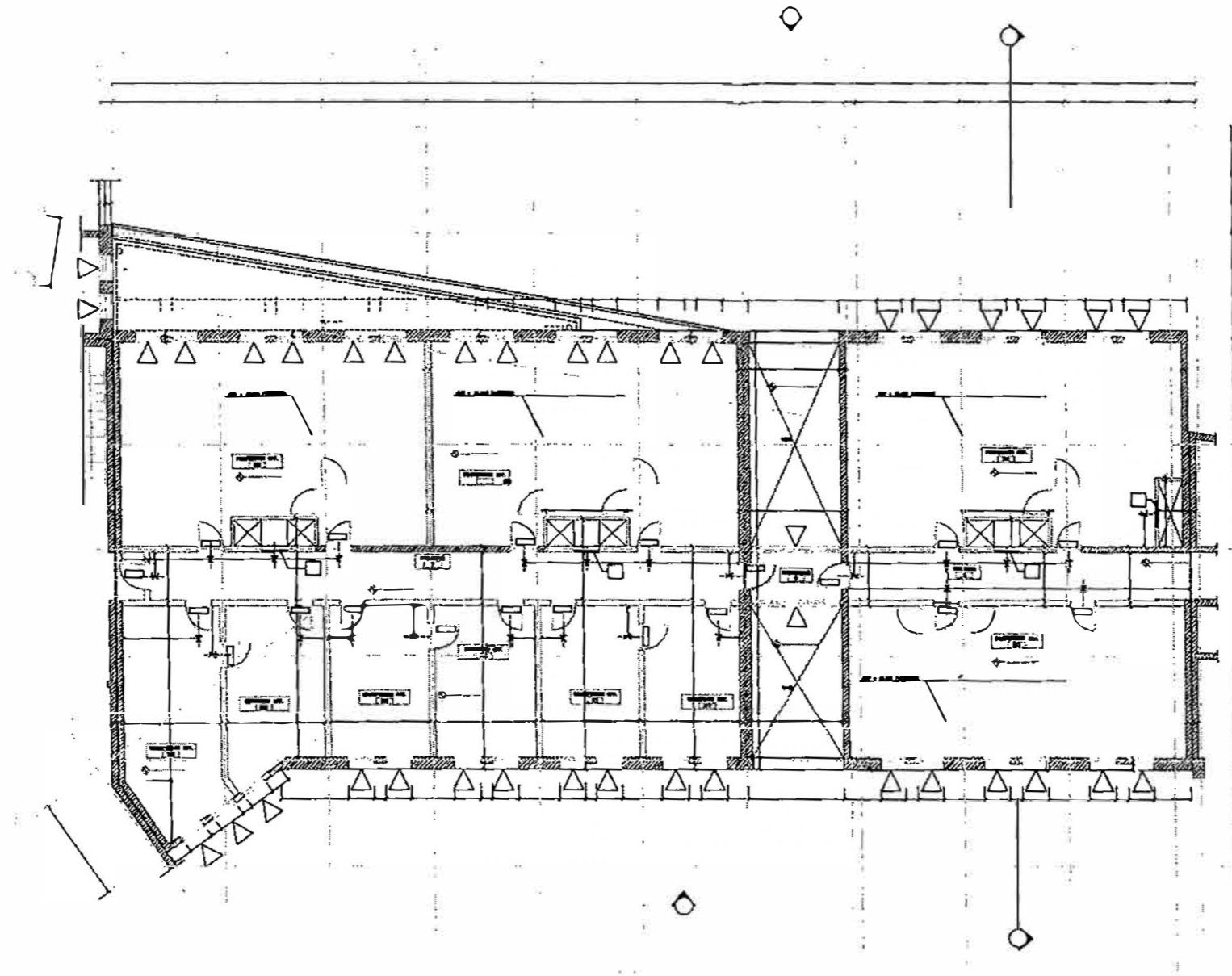
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 9002 COLOR
- 3- ALL RECTANGULAR ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR LOCATIONS)



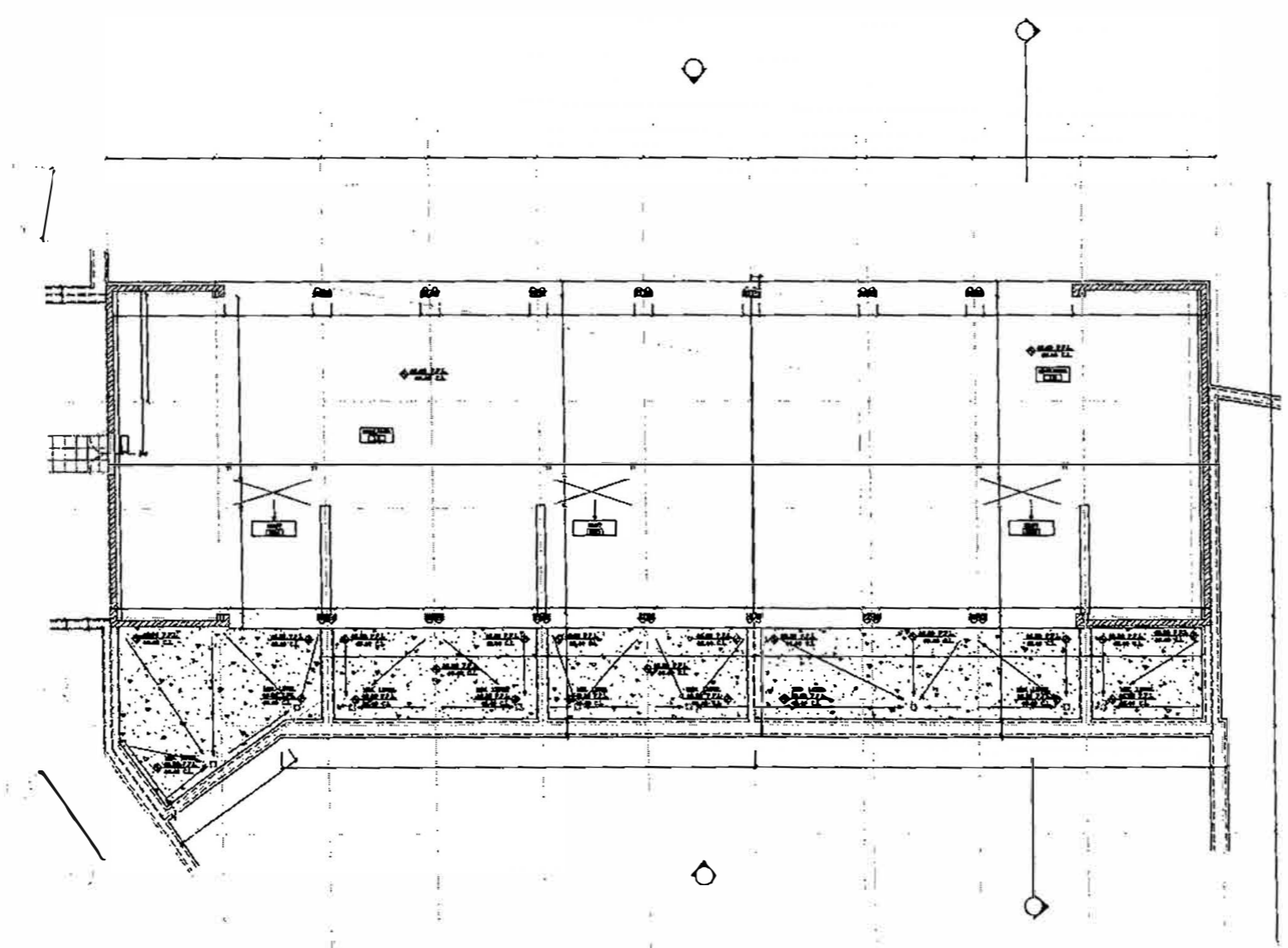
No.	Particulars	Quantity	Unit	Rate	Amount
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Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Notes
101	Office	120	1440	
102	Office	120	1440	
103	Office	120	1440	
104	Office	120	1440	
105	Office	120	1440	
106	Office	120	1440	
107	Office	120	1440	
108	Office	120	1440	
109	Office	120	1440	
110	Office	120	1440	
111	Office	120	1440	
112	Office	120	1440	
113	Office	120	1440	
114	Office	120	1440	
115	Office	120	1440	
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121	Office	120	1440	
122	Office	120	1440	
123	Office	120	1440	
124	Office	120	1440	
125	Office	120	1440	
126	Office	120	1440	
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129	Office	120	1440	
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142	Office	120	1440	
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146	Office	120	1440	
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199	Office	120	1440	
200	Office	120	1440	



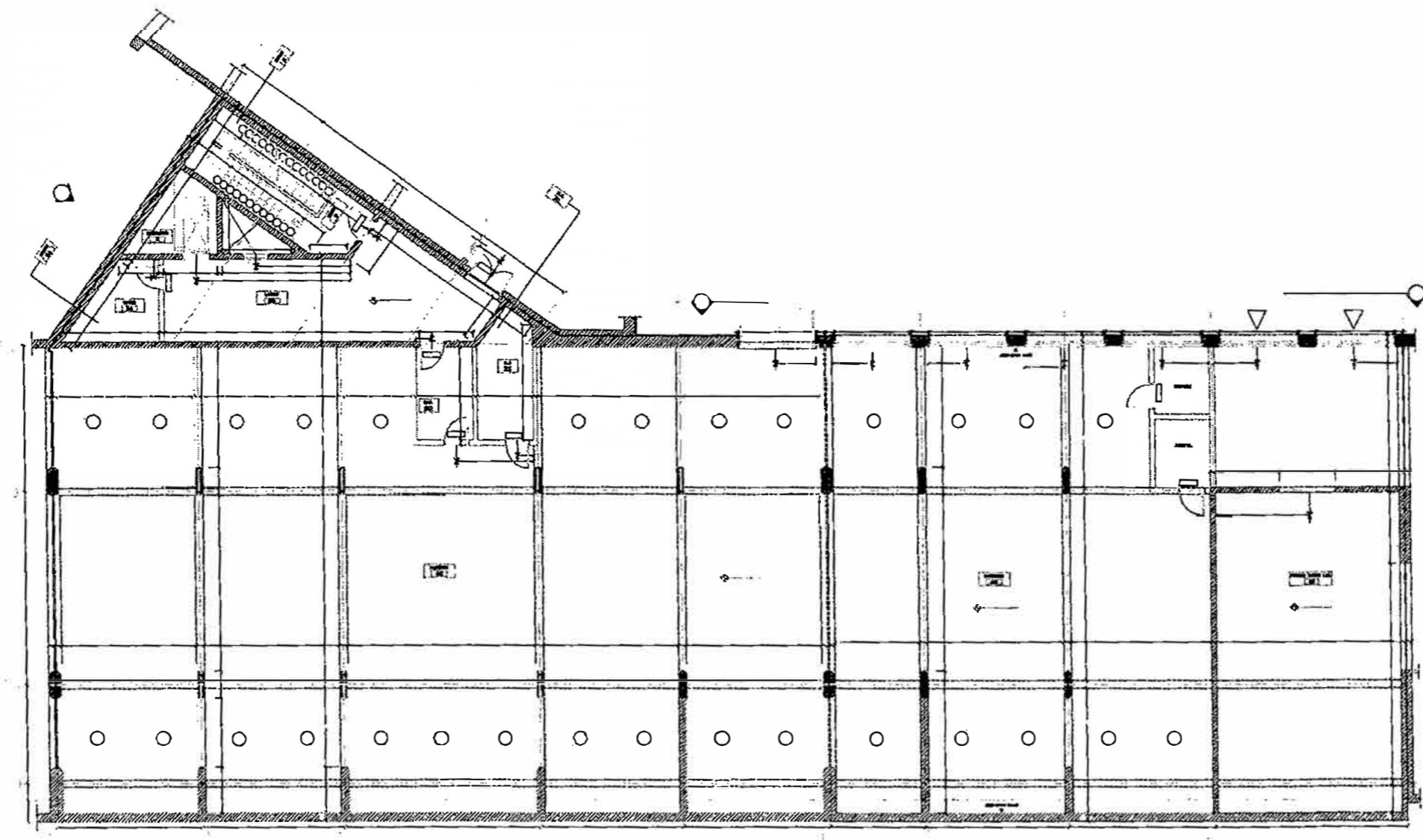
NO.	DESCRIPTION	QUANTITY	UNIT	AMOUNT	REMARKS
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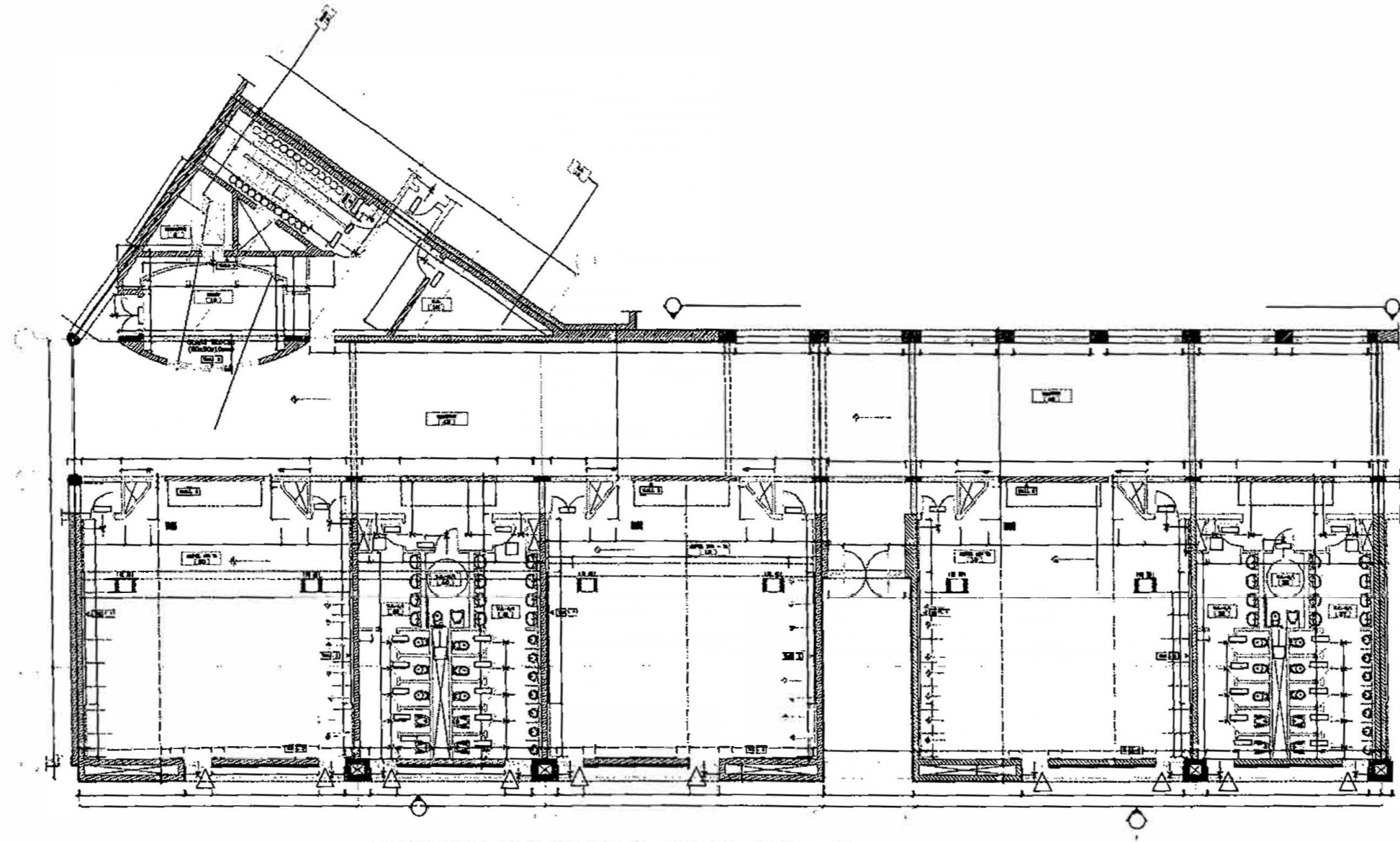
 : CONCRETE TILE 40x40x4 cm TO BE LOOSE LAD

 : GRAVEL 2.5 cm SIZE

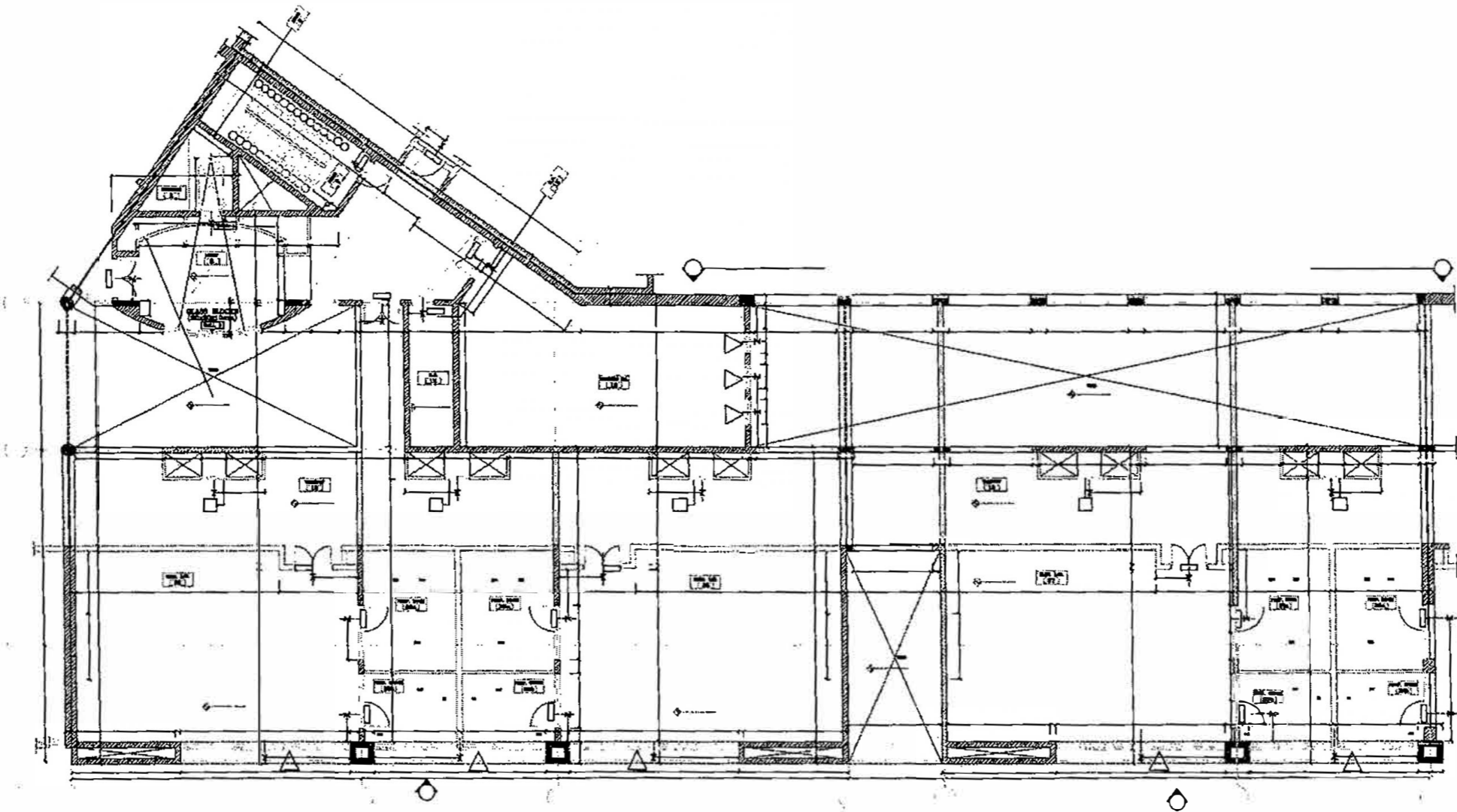
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 6002 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL. KEEP FOR PASSAGES (SEE PLAN FOR LOCATIONS)



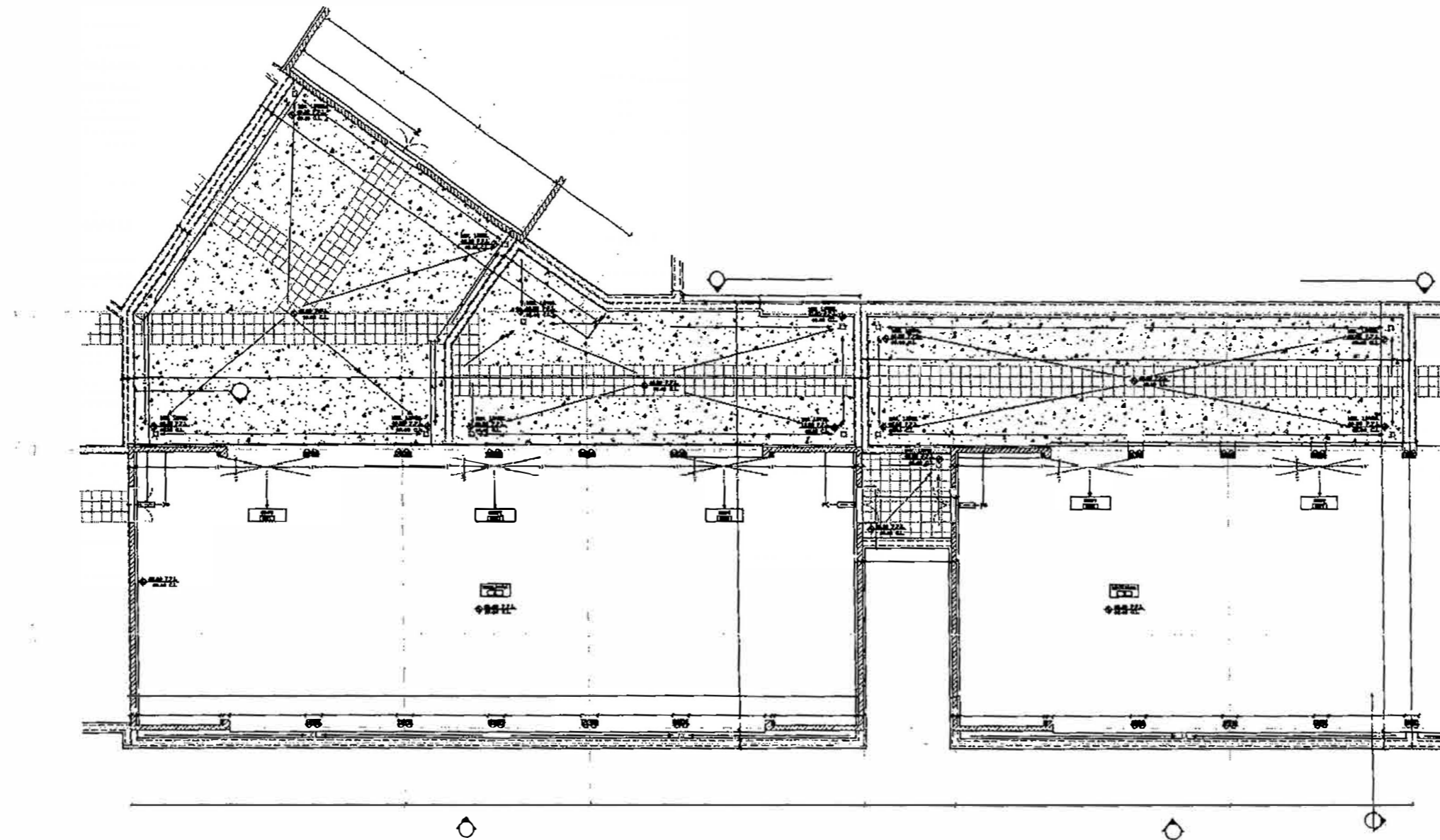
Room No.	Room Name	Area (sq. m)	Volume (cu. m)	Remarks
1	Room 1	12.5	37.5	
2	Room 2	12.5	37.5	
3	Room 3	12.5	37.5	
4	Room 4	12.5	37.5	
5	Room 5	12.5	37.5	
6	Room 6	12.5	37.5	
7	Room 7	12.5	37.5	
8	Room 8	12.5	37.5	
9	Room 9	12.5	37.5	
10	Room 10	12.5	37.5	
11	Room 11	12.5	37.5	
12	Room 12	12.5	37.5	
13	Room 13	12.5	37.5	
14	Room 14	12.5	37.5	
15	Room 15	12.5	37.5	
16	Room 16	12.5	37.5	
17	Room 17	12.5	37.5	
18	Room 18	12.5	37.5	
19	Room 19	12.5	37.5	
20	Room 20	12.5	37.5	
21	Room 21	12.5	37.5	
22	Room 22	12.5	37.5	
23	Room 23	12.5	37.5	
24	Room 24	12.5	37.5	
25	Room 25	12.5	37.5	
26	Room 26	12.5	37.5	
27	Room 27	12.5	37.5	
28	Room 28	12.5	37.5	
29	Room 29	12.5	37.5	
30	Room 30	12.5	37.5	
31	Room 31	12.5	37.5	
32	Room 32	12.5	37.5	
33	Room 33	12.5	37.5	
34	Room 34	12.5	37.5	
35	Room 35	12.5	37.5	
36	Room 36	12.5	37.5	
37	Room 37	12.5	37.5	
38	Room 38	12.5	37.5	
39	Room 39	12.5	37.5	
40	Room 40	12.5	37.5	
41	Room 41	12.5	37.5	
42	Room 42	12.5	37.5	
43	Room 43	12.5	37.5	
44	Room 44	12.5	37.5	
45	Room 45	12.5	37.5	
46	Room 46	12.5	37.5	
47	Room 47	12.5	37.5	
48	Room 48	12.5	37.5	
49	Room 49	12.5	37.5	
50	Room 50	12.5	37.5	
51	Room 51	12.5	37.5	
52	Room 52	12.5	37.5	
53	Room 53	12.5	37.5	
54	Room 54	12.5	37.5	
55	Room 55	12.5	37.5	
56	Room 56	12.5	37.5	
57	Room 57	12.5	37.5	
58	Room 58	12.5	37.5	
59	Room 59	12.5	37.5	
60	Room 60	12.5	37.5	
61	Room 61	12.5	37.5	
62	Room 62	12.5	37.5	
63	Room 63	12.5	37.5	
64	Room 64	12.5	37.5	
65	Room 65	12.5	37.5	
66	Room 66	12.5	37.5	
67	Room 67	12.5	37.5	
68	Room 68	12.5	37.5	
69	Room 69	12.5	37.5	
70	Room 70	12.5	37.5	
71	Room 71	12.5	37.5	
72	Room 72	12.5	37.5	
73	Room 73	12.5	37.5	
74	Room 74	12.5	37.5	
75	Room 75	12.5	37.5	
76	Room 76	12.5	37.5	
77	Room 77	12.5	37.5	
78	Room 78	12.5	37.5	
79	Room 79	12.5	37.5	
80	Room 80	12.5	37.5	
81	Room 81	12.5	37.5	
82	Room 82	12.5	37.5	
83	Room 83	12.5	37.5	
84	Room 84	12.5	37.5	
85	Room 85	12.5	37.5	
86	Room 86	12.5	37.5	
87	Room 87	12.5	37.5	
88	Room 88	12.5	37.5	
89	Room 89	12.5	37.5	
90	Room 90	12.5	37.5	
91	Room 91	12.5	37.5	
92	Room 92	12.5	37.5	
93	Room 93	12.5	37.5	
94	Room 94	12.5	37.5	
95	Room 95	12.5	37.5	
96	Room 96	12.5	37.5	
97	Room 97	12.5	37.5	
98	Room 98	12.5	37.5	
99	Room 99	12.5	37.5	
100	Room 100	12.5	37.5	



Item No.	Part Name	Quantity	Unit	Material	Remarks
1
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3
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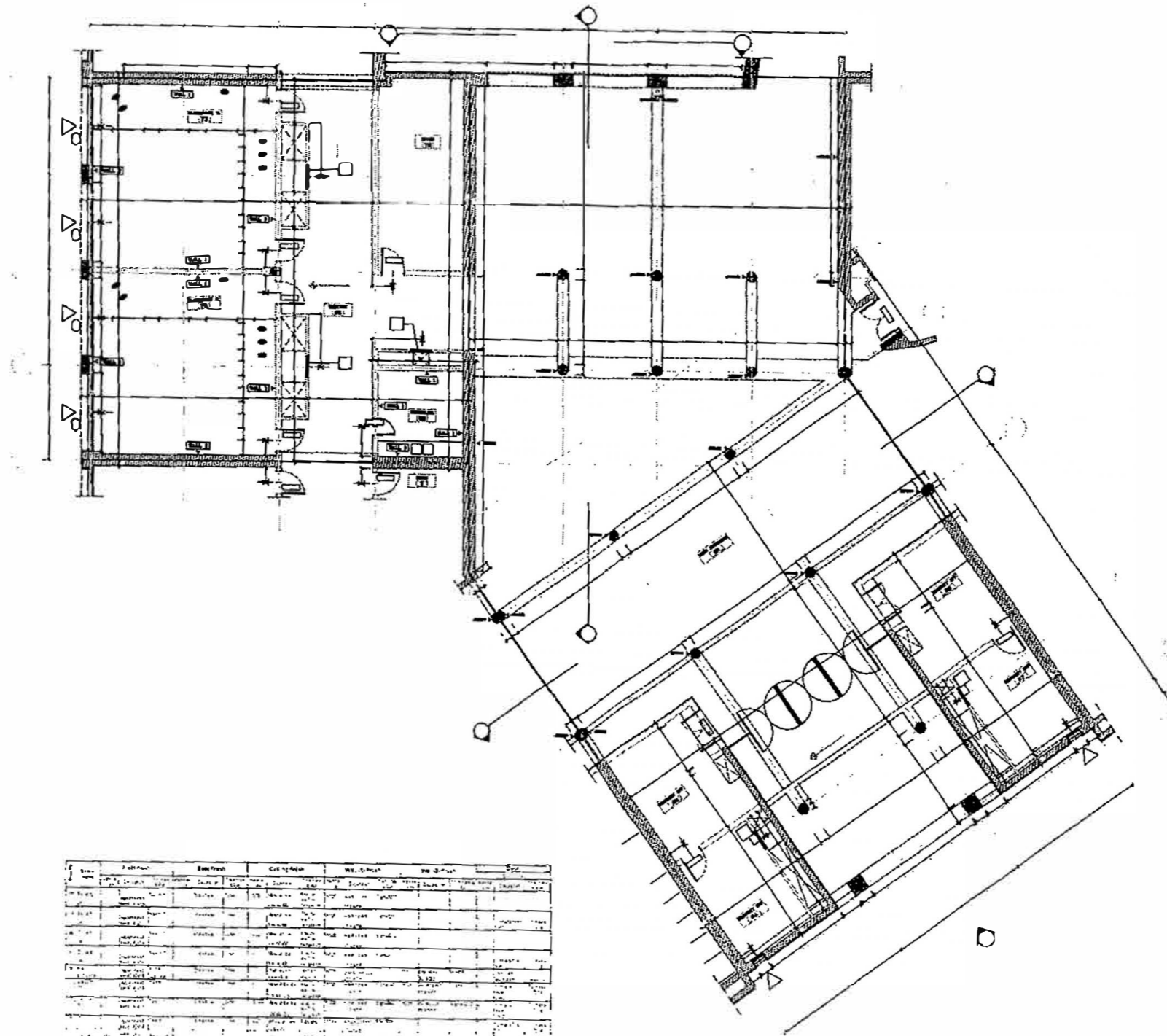
Room No.	Room Name	Area (sq. ft.)	Volume (cu. ft.)	Remarks
101	Office	120	1440	
102	Office	120	1440	
103	Office	120	1440	
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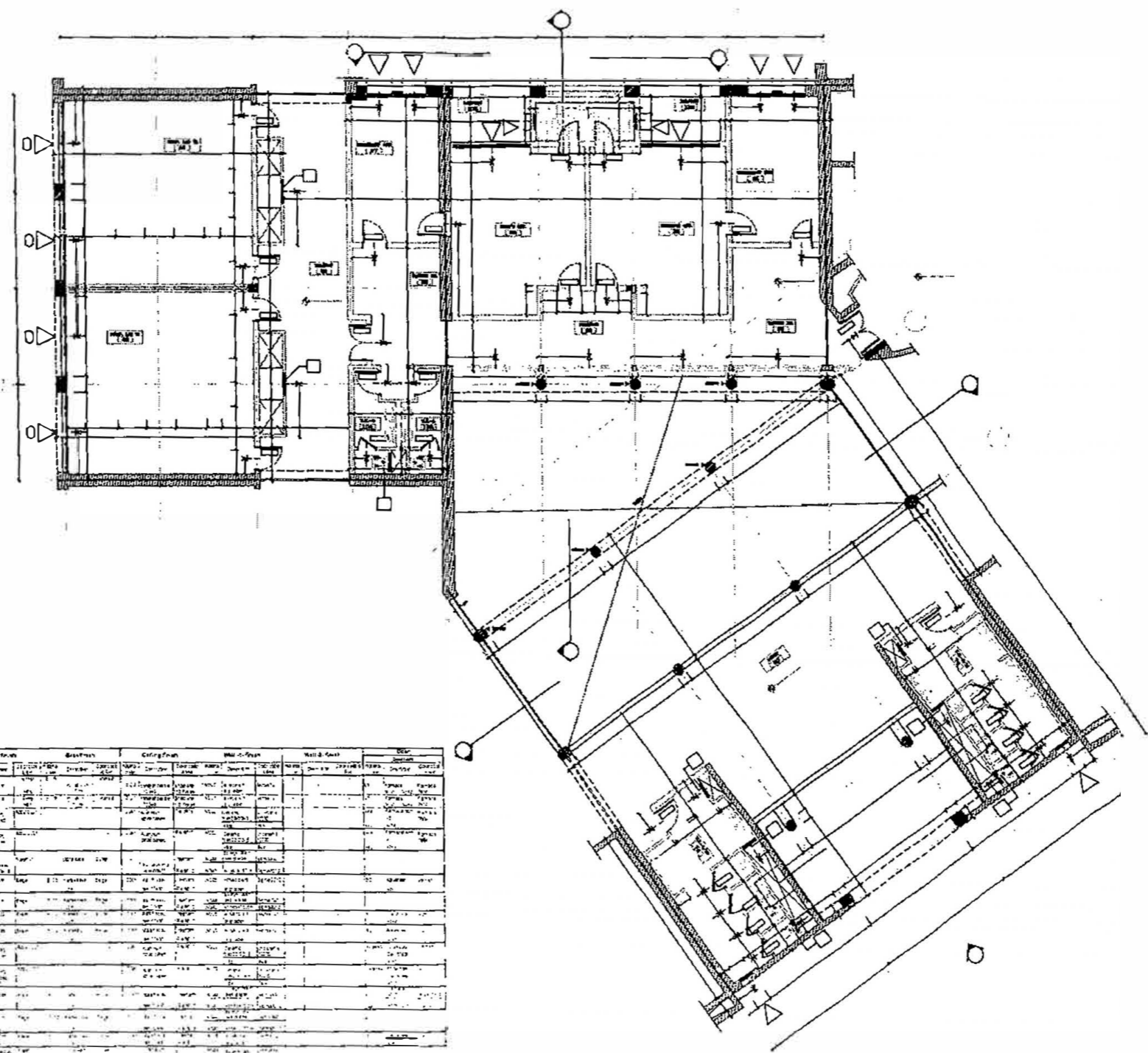
CONCRETE TILE 40x40x4 cm TO BE LOOSE Laid

GRAVEL 2.5 cm SIZE

- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE PAINT COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR LOCATIONS)



NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
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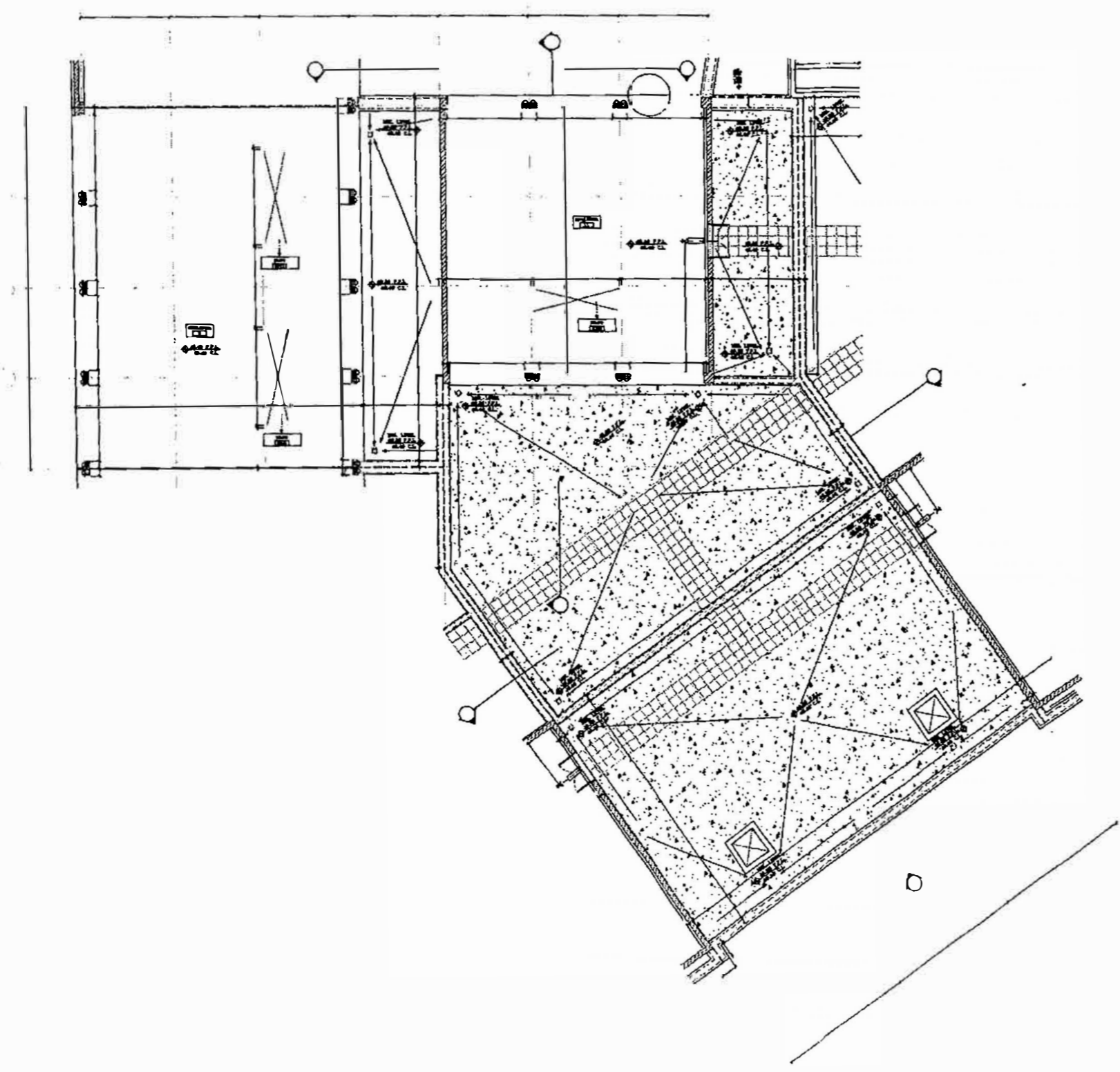
Room	Area (sq. ft.)	Notes	Remarks
1	100	Living Room	Open to dining room
2	80	Dining Room	Open to living room
3	120	Kitchen	Includes breakfast room
4	60	Bathroom	Full bathroom
5	40	Bedroom	Master bedroom
6	30	Bedroom	Guest bedroom
7	20	Bedroom	Child's bedroom
8	15	Bedroom	Guest bedroom
9	10	Bedroom	Guest bedroom
10	10	Bedroom	Guest bedroom
11	10	Bedroom	Guest bedroom
12	10	Bedroom	Guest bedroom
13	10	Bedroom	Guest bedroom
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



1. 1000 x 1000 mm

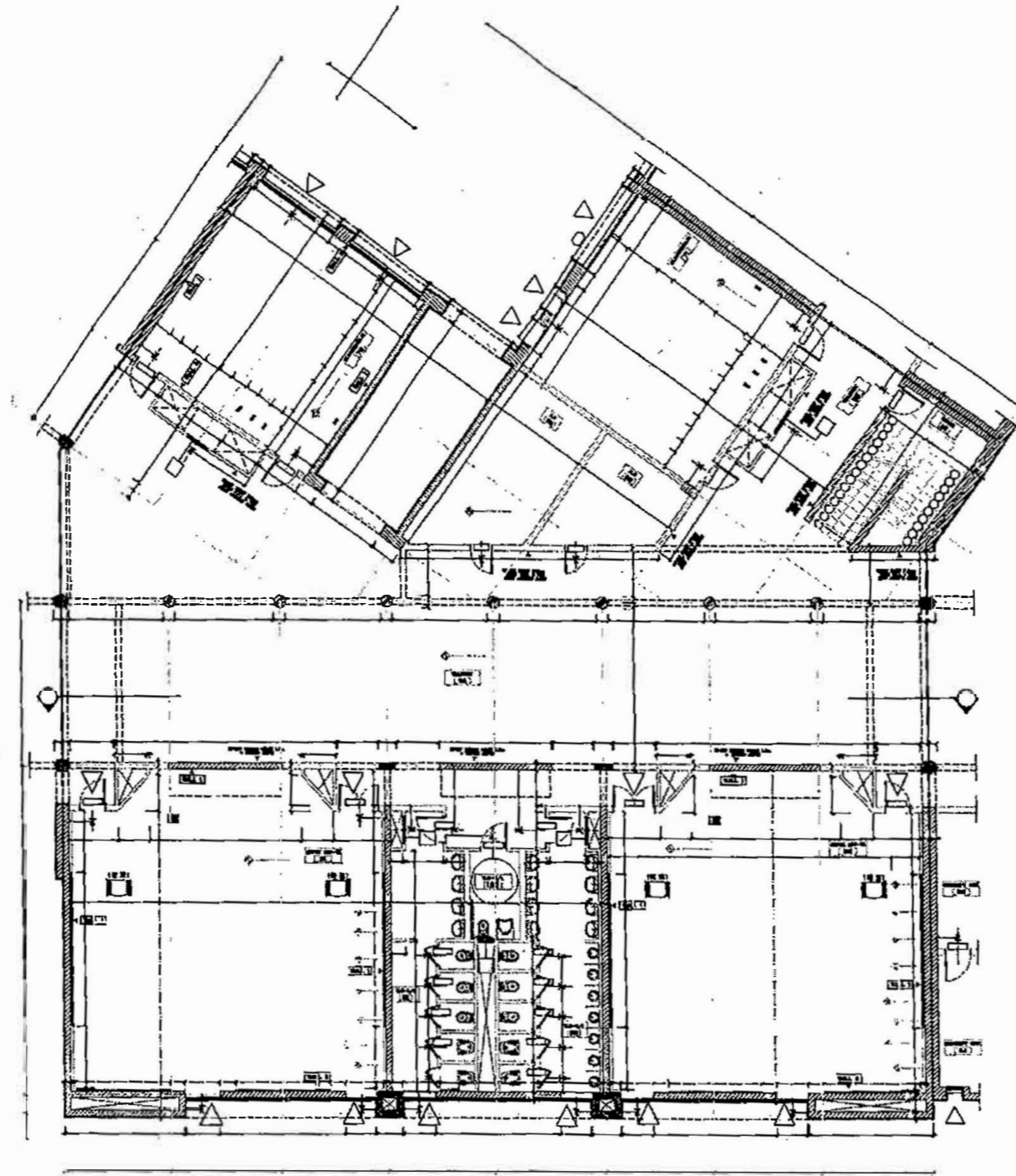
SCALE 1:500

P.V.

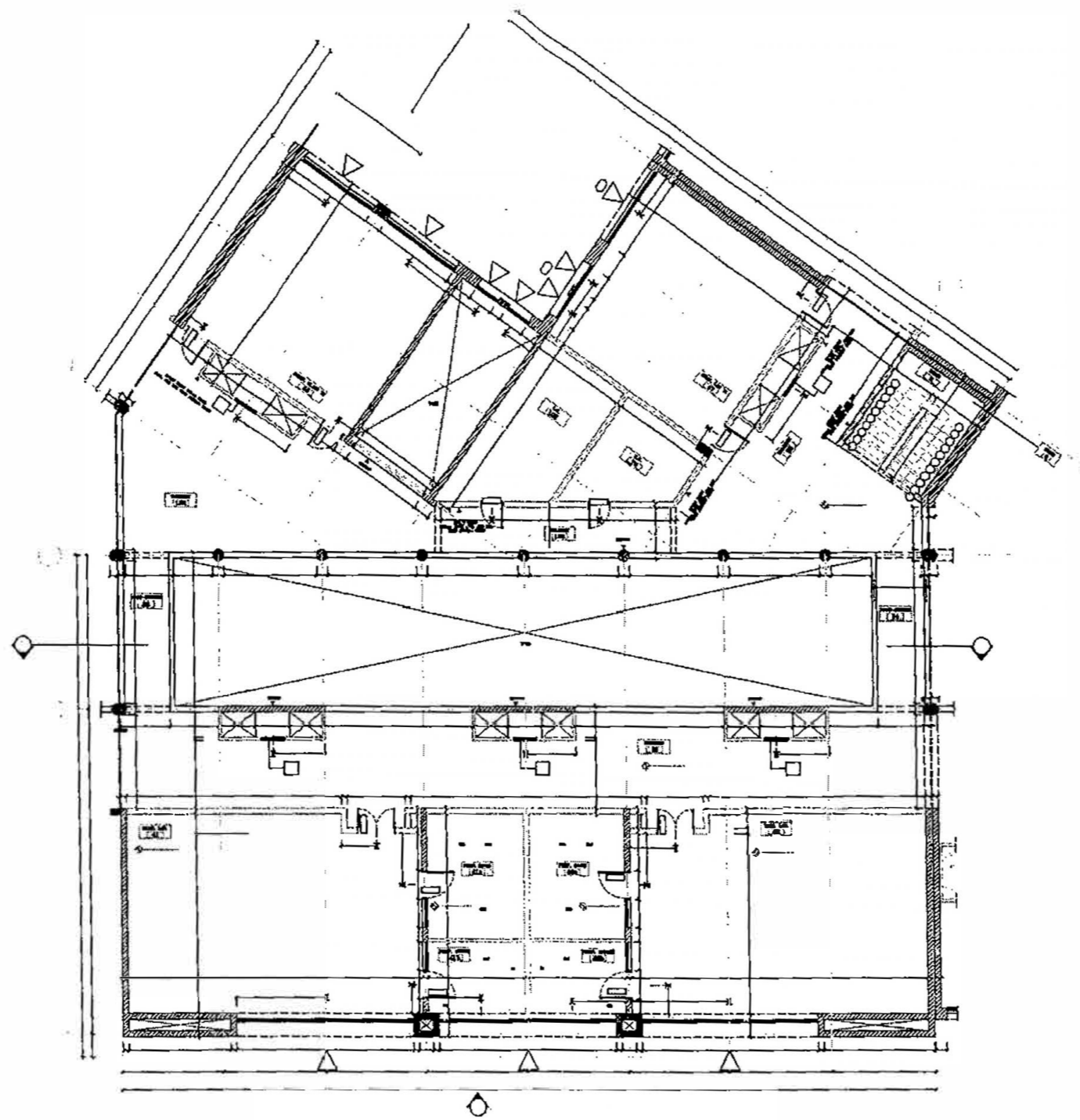


 : CONCRETE TILE 40x40x4 cm TO BE LAYED
 : GRAVEL 2.0 cm SIZE

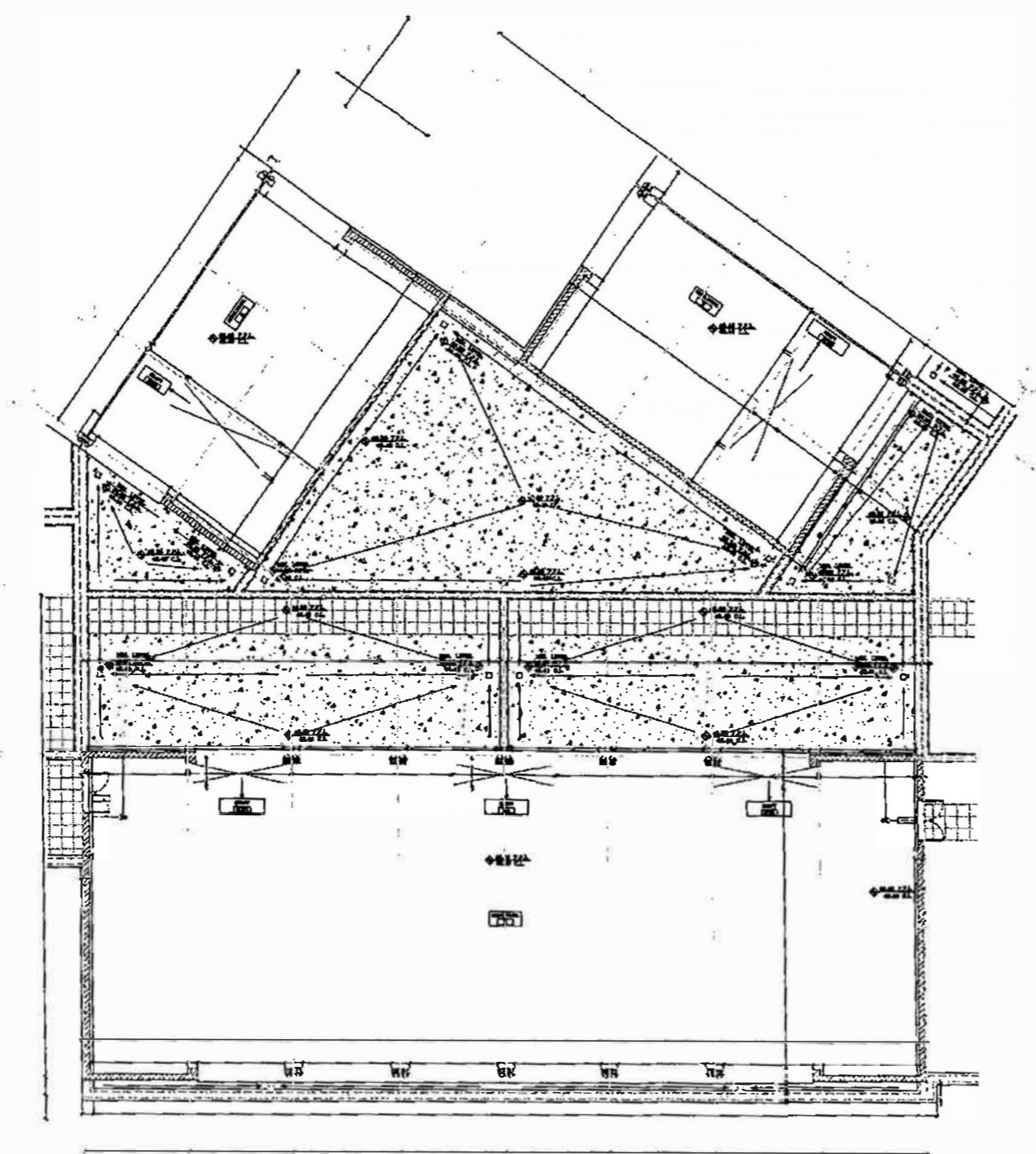
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 9002 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR INDICATIONS)





№	Наименование	Единица измерения	Количество	Примечание
1	Стены	кв. м	1200	
2	Полы	кв. м	1500	
3	Потолки	кв. м	1500	
4	Двери	шт.	15	
5	Окна	шт.	20	
6	Мебель	шт.	100	
7	Оборудование	шт.	50	
8	Санитарно-технические приборы	шт.	30	
9	Электрические приборы	шт.	100	
10	Теплотехнические приборы	шт.	50	
11	Водоснабжение	шт.	10	
12	Канализация	шт.	10	
13	Вентиляция	шт.	10	
14	Отопление	шт.	10	
15	Средства пожаротушения	шт.	10	
16	Средства связи	шт.	10	
17	Средства сигнализации	шт.	10	
18	Средства охраны	шт.	10	
19	Средства контроля	шт.	10	
20	Средства измерения	шт.	10	
21	Средства защиты	шт.	10	
22	Средства связи	шт.	10	
23	Средства сигнализации	шт.	10	
24	Средства охраны	шт.	10	
25	Средства контроля	шт.	10	
26	Средства измерения	шт.	10	
27	Средства защиты	шт.	10	
28	Средства связи	шт.	10	
29	Средства сигнализации	шт.	10	
30	Средства охраны	шт.	10	
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33	Средства защиты	шт.	10	
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40	Средства связи	шт.	10	
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44	Средства измерения	шт.	10	
45	Средства защиты	шт.	10	
46	Средства связи	шт.	10	
47	Средства сигнализации	шт.	10	
48	Средства охраны	шт.	10	
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72	Средства охраны	шт.	10	
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77	Средства сигнализации	шт.	10	
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84	Средства охраны	шт.	10	
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90	Средства охраны	шт.	10	
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93	Средства защиты	шт.	10	
94	Средства связи	шт.	10	
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96	Средства охраны	шт.	10	
97	Средства контроля	шт.	10	
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99	Средства защиты	шт.	10	
100	Средства связи	шт.	10	

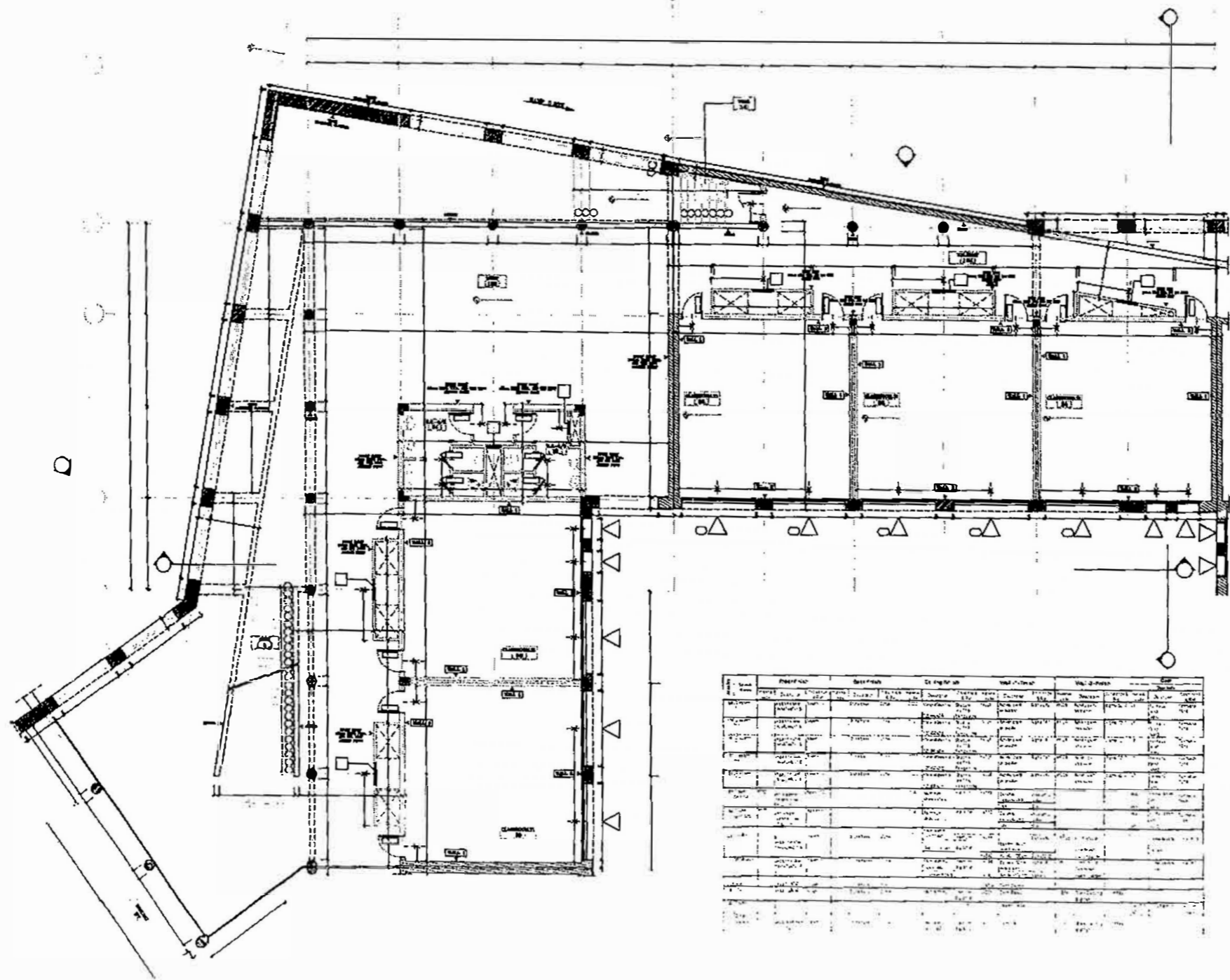


№	Наименование	Единица измерения	Количество	Стоимость	Примечание
1	Строительные работы	кв. м	1000	100000	
2	Материалы	куб. м	500	50000	
3	Работы по устройству кровли	кв. м	2000	200000	
4	Устройство полов	кв. м	1500	150000	
5	Устройство перегородок	кв. м	800	80000	
6	Устройство дверей	шт.	100	100000	
7	Устройство окон	шт.	200	200000	
8	Устройство сантехники	шт.	50	500000	
9	Устройство электротехники	шт.	100	100000	
10	Устройство мебели	шт.	200	200000	
11	Устройство отделки	кв. м	3000	300000	
12	Устройство лестниц	шт.	10	100000	
13	Устройство вентиляции	шт.	5	500000	
14	Устройство отопления	шт.	5	500000	
15	Устройство водоснабжения	шт.	5	500000	
16	Устройство канализации	шт.	5	500000	
17	Устройство охраны	шт.	5	500000	
18	Устройство связи	шт.	5	500000	
19	Устройство сигнализации	шт.	5	500000	
20	Устройство видеонаблюдения	шт.	5	500000	
21	Устройство пожаротушения	шт.	5	500000	
22	Устройство аварийного освещения	шт.	5	500000	
23	Устройство звукоизоляции	шт.	5	500000	
24	Устройство шумоизоляции	шт.	5	500000	
25	Устройство теплоизоляции	шт.	5	500000	
26	Устройство гидроизоляции	шт.	5	500000	
27	Устройство вентиляции	шт.	5	500000	
28	Устройство отопления	шт.	5	500000	
29	Устройство водоснабжения	шт.	5	500000	
30	Устройство канализации	шт.	5	500000	
31	Устройство охраны	шт.	5	500000	
32	Устройство связи	шт.	5	500000	
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42	Устройство отопления	шт.	5	500000	
43	Устройство водоснабжения	шт.	5	500000	
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45	Устройство охраны	шт.	5	500000	
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47	Устройство сигнализации	шт.	5	500000	
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52	Устройство шумоизоляции	шт.	5	500000	
53	Устройство теплоизоляции	шт.	5	500000	
54	Устройство гидроизоляции	шт.	5	500000	
55	Устройство вентиляции	шт.	5	500000	
56	Устройство отопления	шт.	5	500000	
57	Устройство водоснабжения	шт.	5	500000	
58	Устройство канализации	шт.	5	500000	
59	Устройство охраны	шт.	5	500000	
60	Устройство связи	шт.	5	500000	
61	Устройство сигнализации	шт.	5	500000	
62	Устройство видеонаблюдения	шт.	5	500000	
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66	Устройство шумоизоляции	шт.	5	500000	
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70	Устройство отопления	шт.	5	500000	
71	Устройство водоснабжения	шт.	5	500000	
72	Устройство канализации	шт.	5	500000	
73	Устройство охраны	шт.	5	500000	
74	Устройство связи	шт.	5	500000	
75	Устройство сигнализации	шт.	5	500000	
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86	Устройство канализации	шт.	5	500000	
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92	Устройство аварийного освещения	шт.	5	500000	
93	Устройство звукоизоляции	шт.	5	500000	
94	Устройство шумоизоляции	шт.	5	500000	
95	Устройство теплоизоляции	шт.	5	500000	
96	Устройство гидроизоляции	шт.	5	500000	
97	Устройство вентиляции	шт.	5	500000	
98	Устройство отопления	шт.	5	500000	
99	Устройство водоснабжения	шт.	5	500000	
100	Устройство канализации	шт.	5	500000	

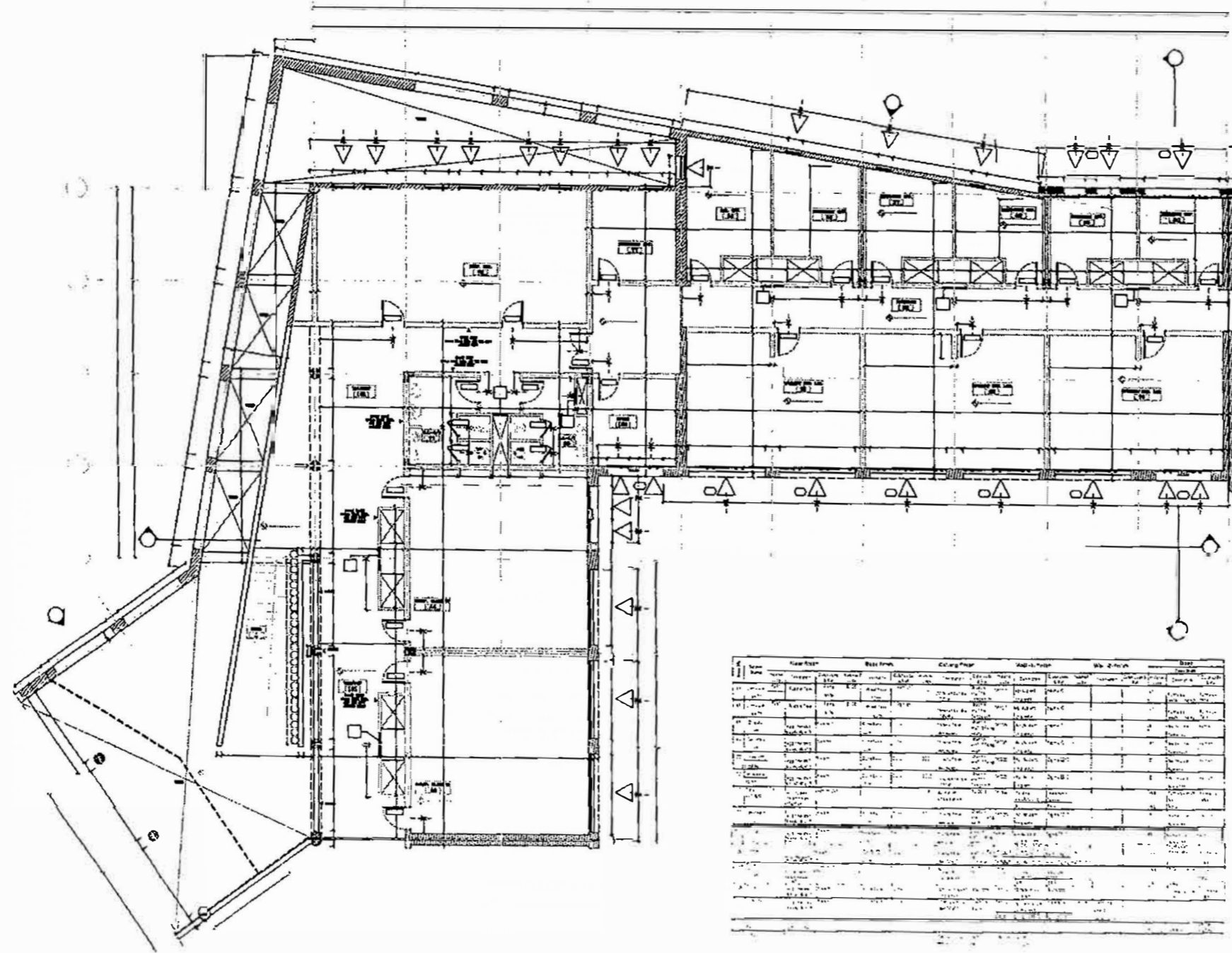


 : CONCRETE TILE 40x40x4 cm TO BE LOOSE LAID
 : GRAVEL 2.5 cm SIZE

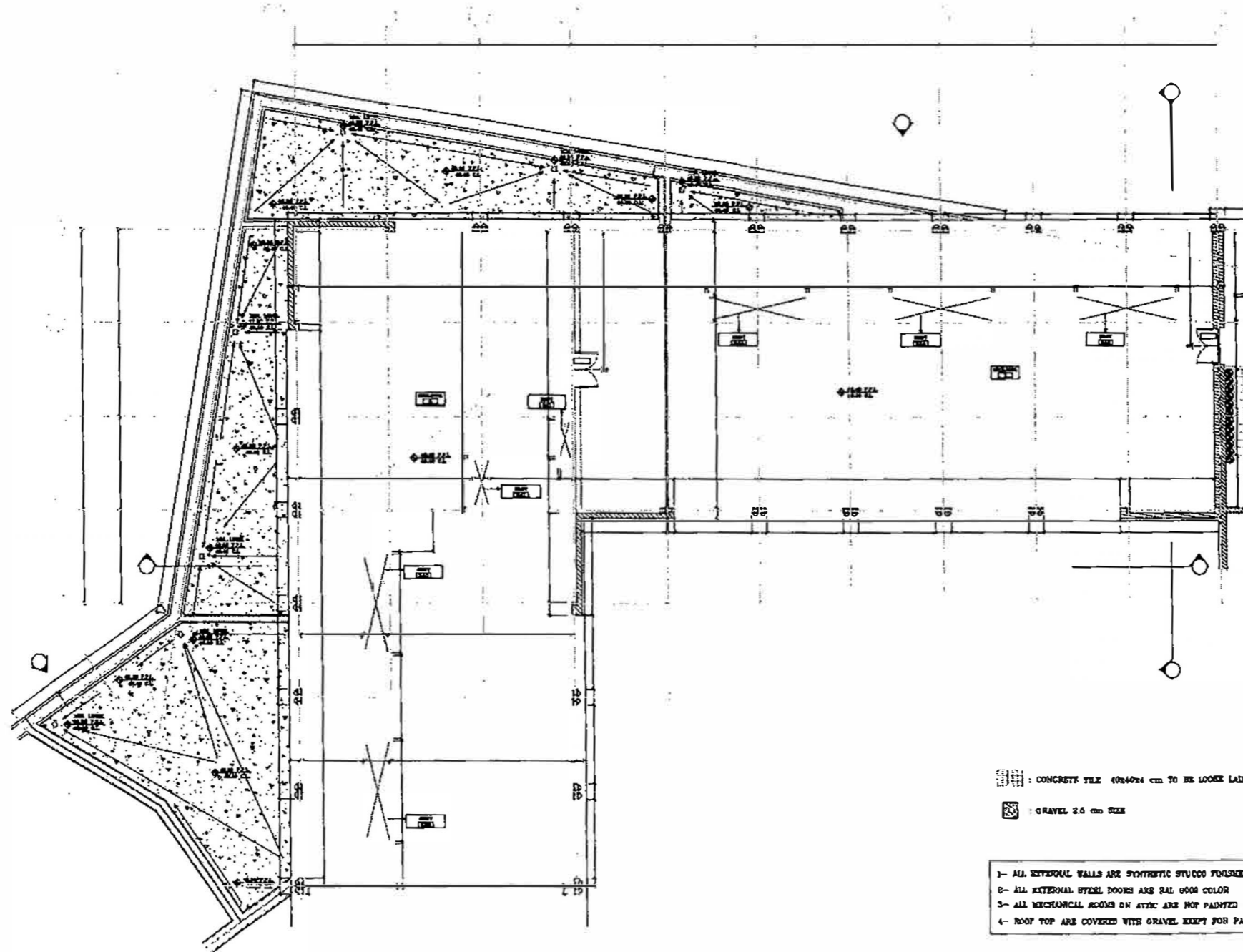
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE PAI. 9002 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR LOCATION)




No.	Particulars	Quantity	Unit	Rate	Amount
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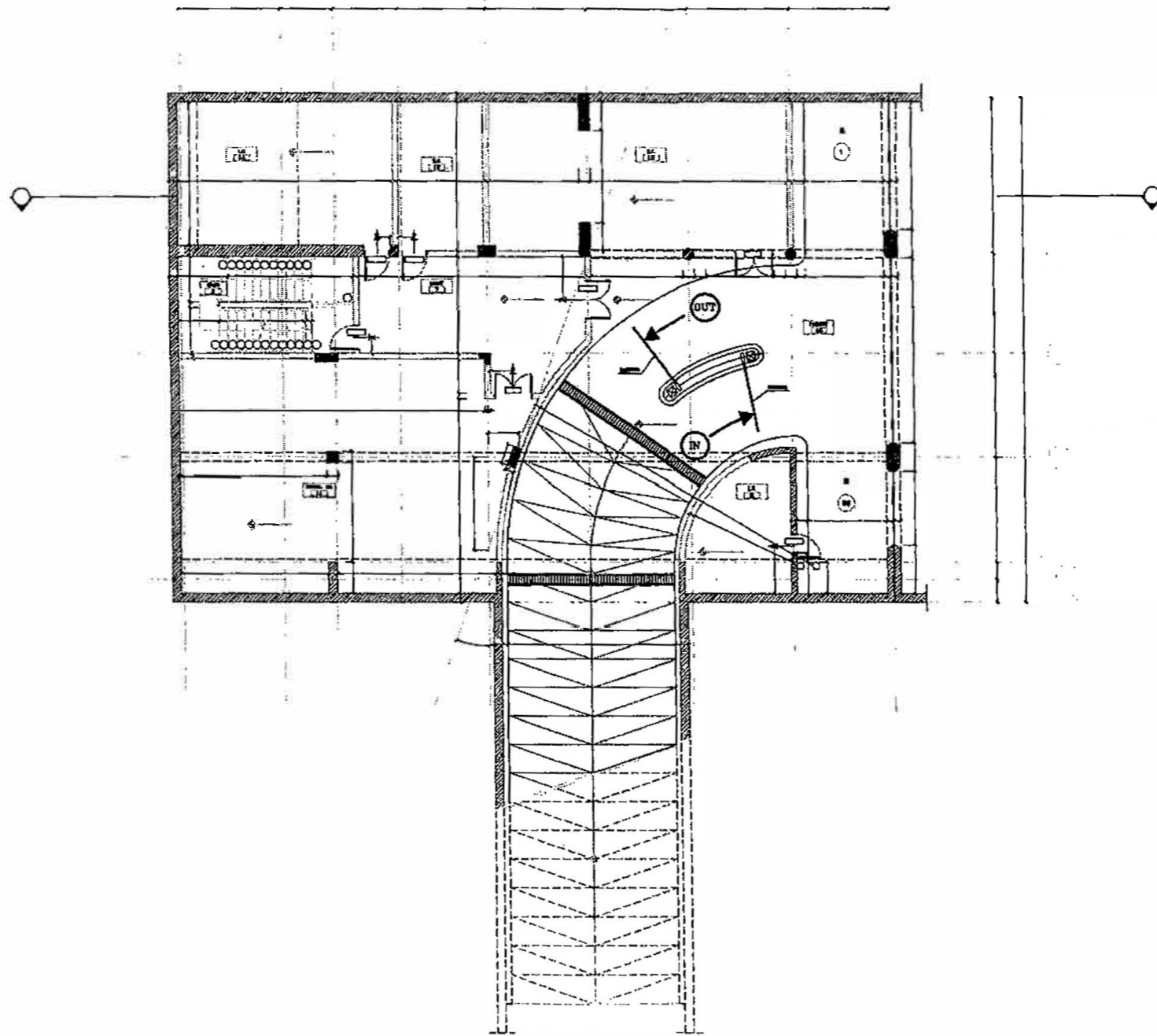
Item	Item Name	Material	Quantity	Unit	Remarks
1	Roof Truss	Steel	100	m	...
2	Roof Beam	Steel	200	m	...
3	Roof Purlin	Steel	300	m	...
4	Roof Deck	Concrete	400	m ²	...
5	Roof Wall	Brick	500	m ²	...
6	Roof Window	Aluminum	10	unit	...
7	Roof Door	Steel	5	unit	...
8	Roof Vent	Steel	10	unit	...
9	Roof Light	Steel	10	unit	...
10	Roof Drain	Steel	10	unit	...
11	Roof Gutter	Steel	10	unit	...
12	Roof Fascia	Steel	10	unit	...
13	Roof Soffit	Steel	10	unit	...
14	Roof Eave	Steel	10	unit	...
15	Roof Ridge	Steel	10	unit	...
16	Roof Valley	Steel	10	unit	...
17	Roof Hip	Steel	10	unit	...
18	Roof Gable	Steel	10	unit	...
19	Roof Parapet	Steel	10	unit	...
20	Roof Coping	Steel	10	unit	...



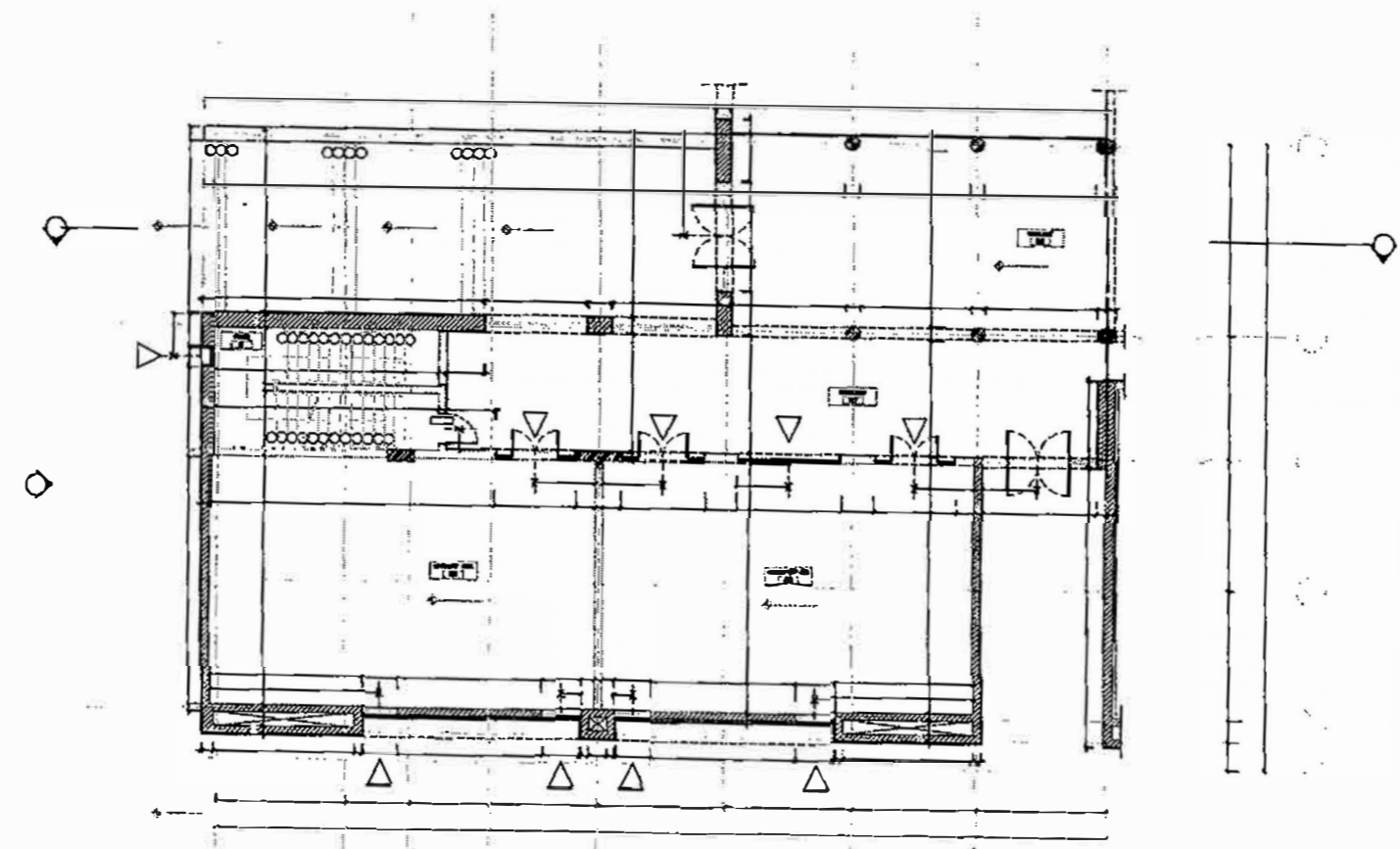
 : CONCRETE TILE 40x40x4 cm TO BE LAYED

 : GRAVEL 2.5 cm SIZE

- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED.
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 9009 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR LOCATIONS)



NO.	DESCRIPTION	QUANTITY	UNIT	AMOUNT	REMARKS
1
2
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No.	Description	Quantity	Unit	Remarks
1
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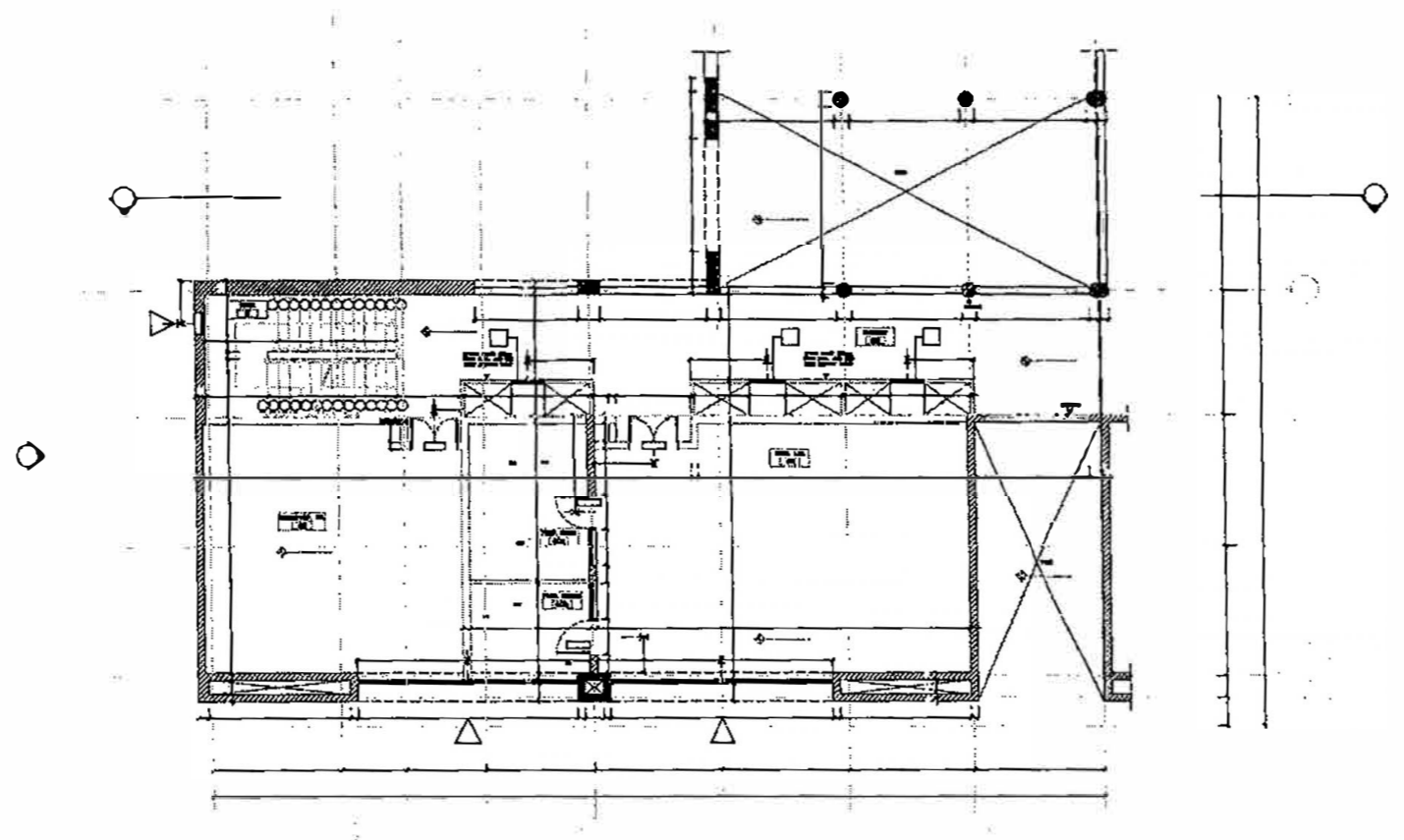


1:200

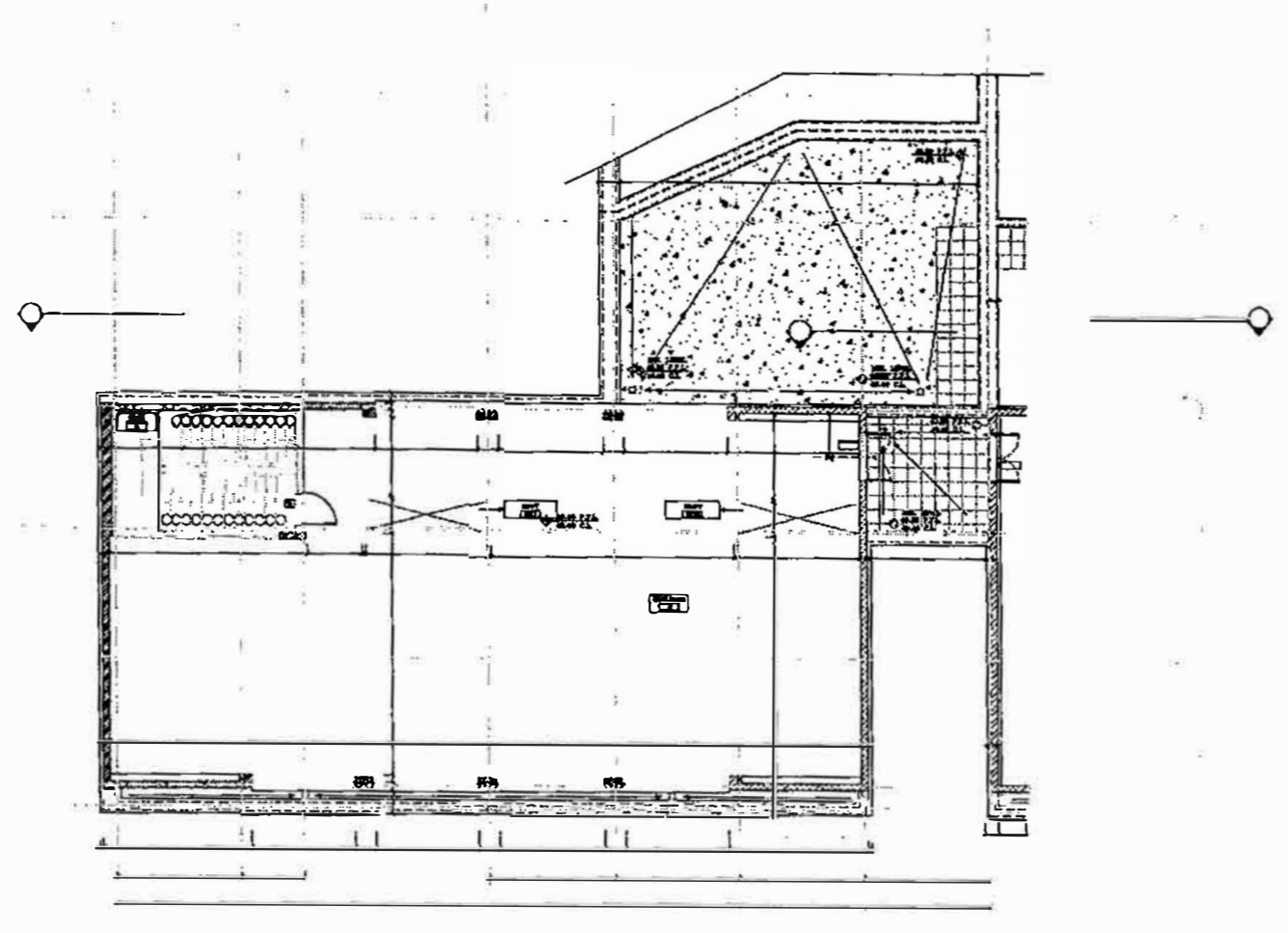
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

DRAWING NUMBER

REV

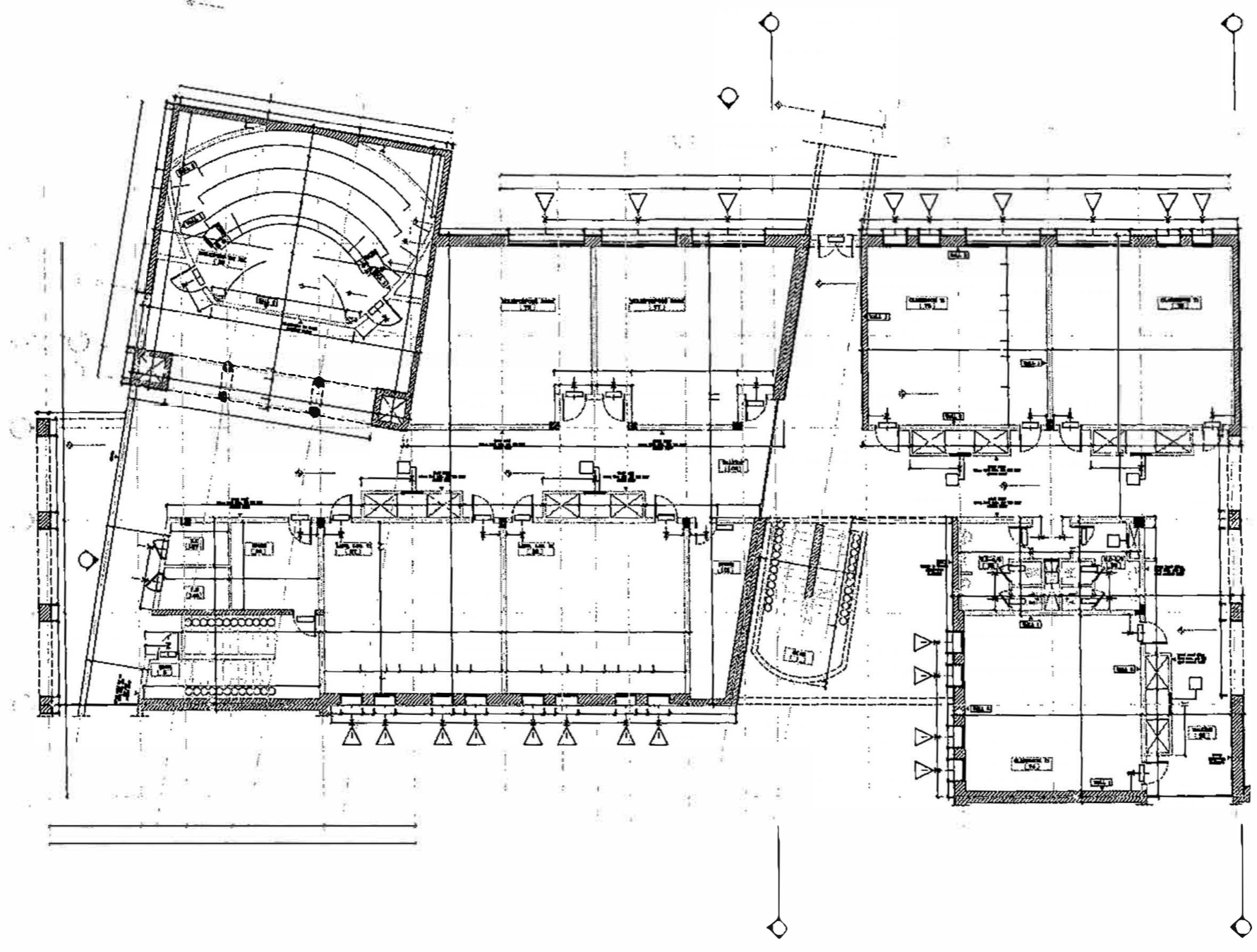


No.	Description	Quantity	Unit	Value	Remarks
1	Concrete	100	m ³	100	
2	Reinforcement	50	kg	50	
3	Brickwork	200	m ³	200	
4	Plaster	150	m ²	150	
5	Paint	50	kg	50	
6	Roofing	100	m ²	100	
7	Windows	10	nos	10	
8	Doors	5	nos	5	
9	Sanitary	5	nos	5	
10	Electrical	100	m	100	
11	Water	100	m	100	
12	Gas	100	m	100	
13	Roofing	100	m ²	100	
14	Plaster	150	m ²	150	
15	Paint	50	kg	50	
16	Roofing	100	m ²	100	
17	Plaster	150	m ²	150	
18	Paint	50	kg	50	
19	Roofing	100	m ²	100	
20	Plaster	150	m ²	150	
21	Paint	50	kg	50	
22	Roofing	100	m ²	100	
23	Plaster	150	m ²	150	
24	Paint	50	kg	50	
25	Roofing	100	m ²	100	
26	Plaster	150	m ²	150	
27	Paint	50	kg	50	
28	Roofing	100	m ²	100	
29	Plaster	150	m ²	150	
30	Paint	50	kg	50	

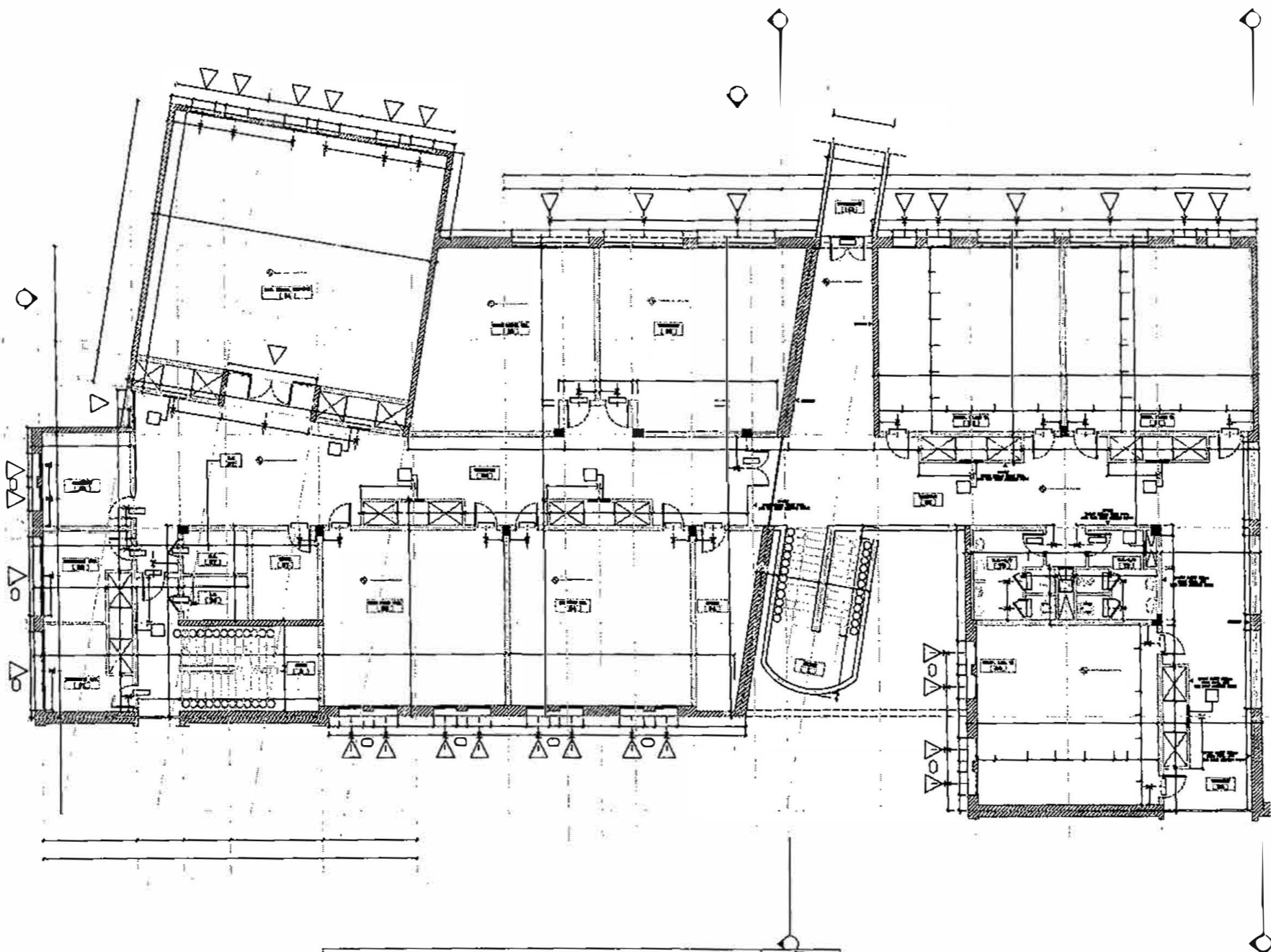


 : CONCRETE TILE 40x40x4 cm TO BE LOOSE Laid
 : GRAVEL 2.0 cm SIZE

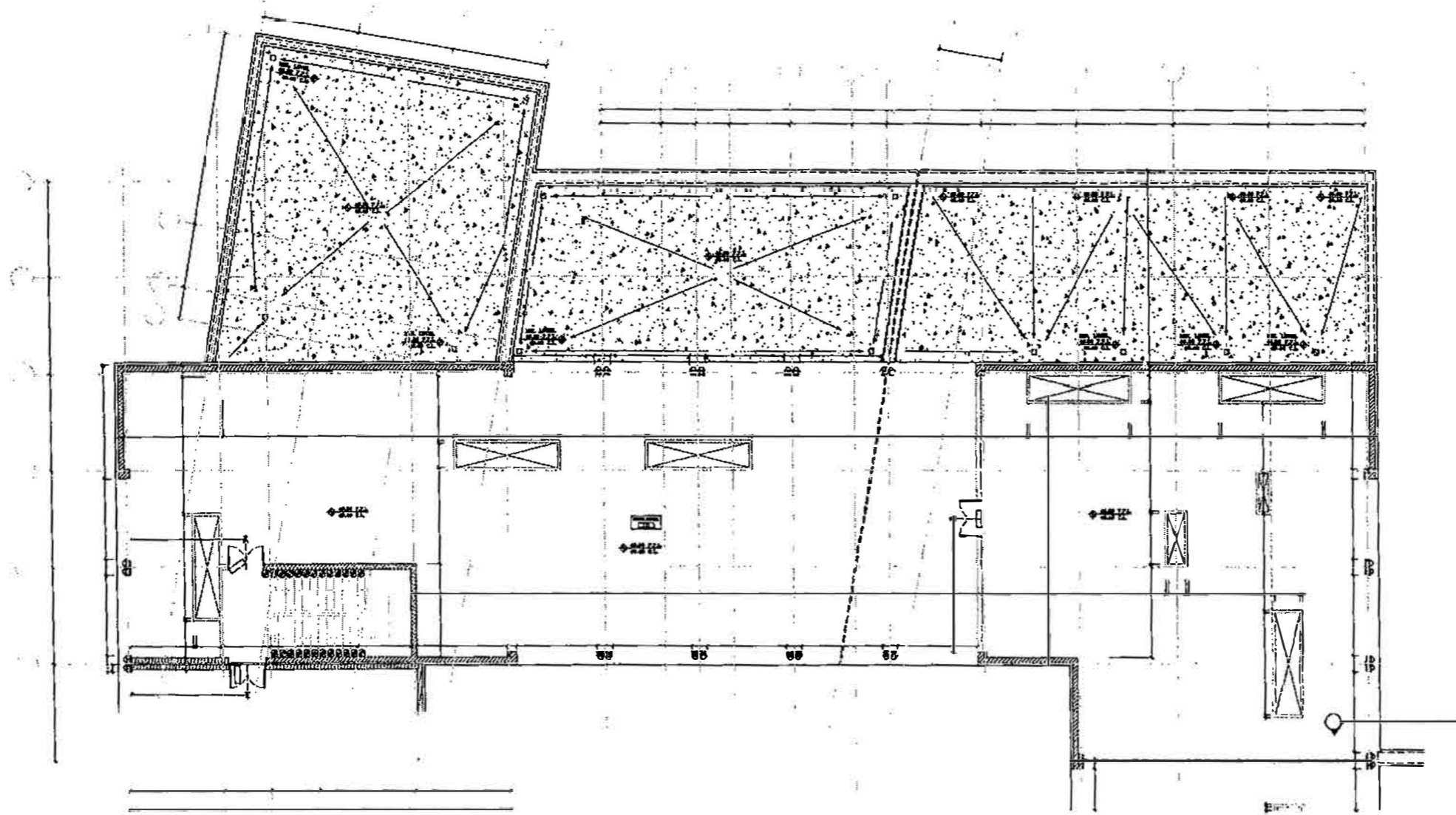
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 9004 BOLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL STEEP FOR PASADGES (SEE PLAN FOR LOCATIONS)





№	Наименование	Материал	Единица измерения	Количество	Примечание
1	Стены	Кирпич	м ²	1000	
2	Полы	Линолеум	м ²	500	
3	Потолки	Гипсокартон	м ²	2000	
4	Двери	Дерево	шт.	50	
5	Окна	Алюминий	шт.	100	
6	Столбы	Железо	шт.	20	
7	Столбы	Железо	шт.	10	
8	Столбы	Железо	шт.	5	
9	Столбы	Железо	шт.	3	
10	Столбы	Железо	шт.	2	
11	Столбы	Железо	шт.	1	
12	Столбы	Железо	шт.	1	
13	Столбы	Железо	шт.	1	
14	Столбы	Железо	шт.	1	
15	Столбы	Железо	шт.	1	
16	Столбы	Железо	шт.	1	
17	Столбы	Железо	шт.	1	
18	Столбы	Железо	шт.	1	
19	Столбы	Железо	шт.	1	
20	Столбы	Железо	шт.	1	
21	Столбы	Железо	шт.	1	
22	Столбы	Железо	шт.	1	
23	Столбы	Железо	шт.	1	
24	Столбы	Железо	шт.	1	
25	Столбы	Железо	шт.	1	
26	Столбы	Железо	шт.	1	
27	Столбы	Железо	шт.	1	
28	Столбы	Железо	шт.	1	
29	Столбы	Железо	шт.	1	
30	Столбы	Железо	шт.	1	
31	Столбы	Железо	шт.	1	
32	Столбы	Железо	шт.	1	
33	Столбы	Железо	шт.	1	
34	Столбы	Железо	шт.	1	
35	Столбы	Железо	шт.	1	
36	Столбы	Железо	шт.	1	
37	Столбы	Железо	шт.	1	
38	Столбы	Железо	шт.	1	
39	Столбы	Железо	шт.	1	
40	Столбы	Железо	шт.	1	
41	Столбы	Железо	шт.	1	
42	Столбы	Железо	шт.	1	
43	Столбы	Железо	шт.	1	
44	Столбы	Железо	шт.	1	
45	Столбы	Железо	шт.	1	
46	Столбы	Железо	шт.	1	
47	Столбы	Железо	шт.	1	
48	Столбы	Железо	шт.	1	
49	Столбы	Железо	шт.	1	
50	Столбы	Железо	шт.	1	



№	Room Name	Area (sq. m)	Volume (cu. m)	Notes
1	Room 1	100.0	1000.0	...
2	Room 2	150.0	1500.0	...
3	Room 3	200.0	2000.0	...
4	Room 4	300.0	3000.0	...
5	Room 5	400.0	4000.0	...
6	Room 6	500.0	5000.0	...
7	Room 7	600.0	6000.0	...
8	Room 8	700.0	7000.0	...
9	Room 9	800.0	8000.0	...
10	Room 10	900.0	9000.0	...
11	Room 11	1000.0	10000.0	...
12	Room 12	1100.0	11000.0	...
13	Room 13	1200.0	12000.0	...
14	Room 14	1300.0	13000.0	...
15	Room 15	1400.0	14000.0	...
16	Room 16	1500.0	15000.0	...
17	Room 17	1600.0	16000.0	...
18	Room 18	1700.0	17000.0	...
19	Room 19	1800.0	18000.0	...
20	Room 20	1900.0	19000.0	...
21	Room 21	2000.0	20000.0	...
22	Room 22	2100.0	21000.0	...
23	Room 23	2200.0	22000.0	...
24	Room 24	2300.0	23000.0	...
25	Room 25	2400.0	24000.0	...
26	Room 26	2500.0	25000.0	...
27	Room 27	2600.0	26000.0	...
28	Room 28	2700.0	27000.0	...
29	Room 29	2800.0	28000.0	...
30	Room 30	2900.0	29000.0	...
31	Room 31	3000.0	30000.0	...
32	Room 32	3100.0	31000.0	...
33	Room 33	3200.0	32000.0	...
34	Room 34	3300.0	33000.0	...
35	Room 35	3400.0	34000.0	...
36	Room 36	3500.0	35000.0	...
37	Room 37	3600.0	36000.0	...
38	Room 38	3700.0	37000.0	...
39	Room 39	3800.0	38000.0	...
40	Room 40	3900.0	39000.0	...
41	Room 41	4000.0	40000.0	...
42	Room 42	4100.0	41000.0	...
43	Room 43	4200.0	42000.0	...
44	Room 44	4300.0	43000.0	...
45	Room 45	4400.0	44000.0	...
46	Room 46	4500.0	45000.0	...
47	Room 47	4600.0	46000.0	...
48	Room 48	4700.0	47000.0	...
49	Room 49	4800.0	48000.0	...
50	Room 50	4900.0	49000.0	...













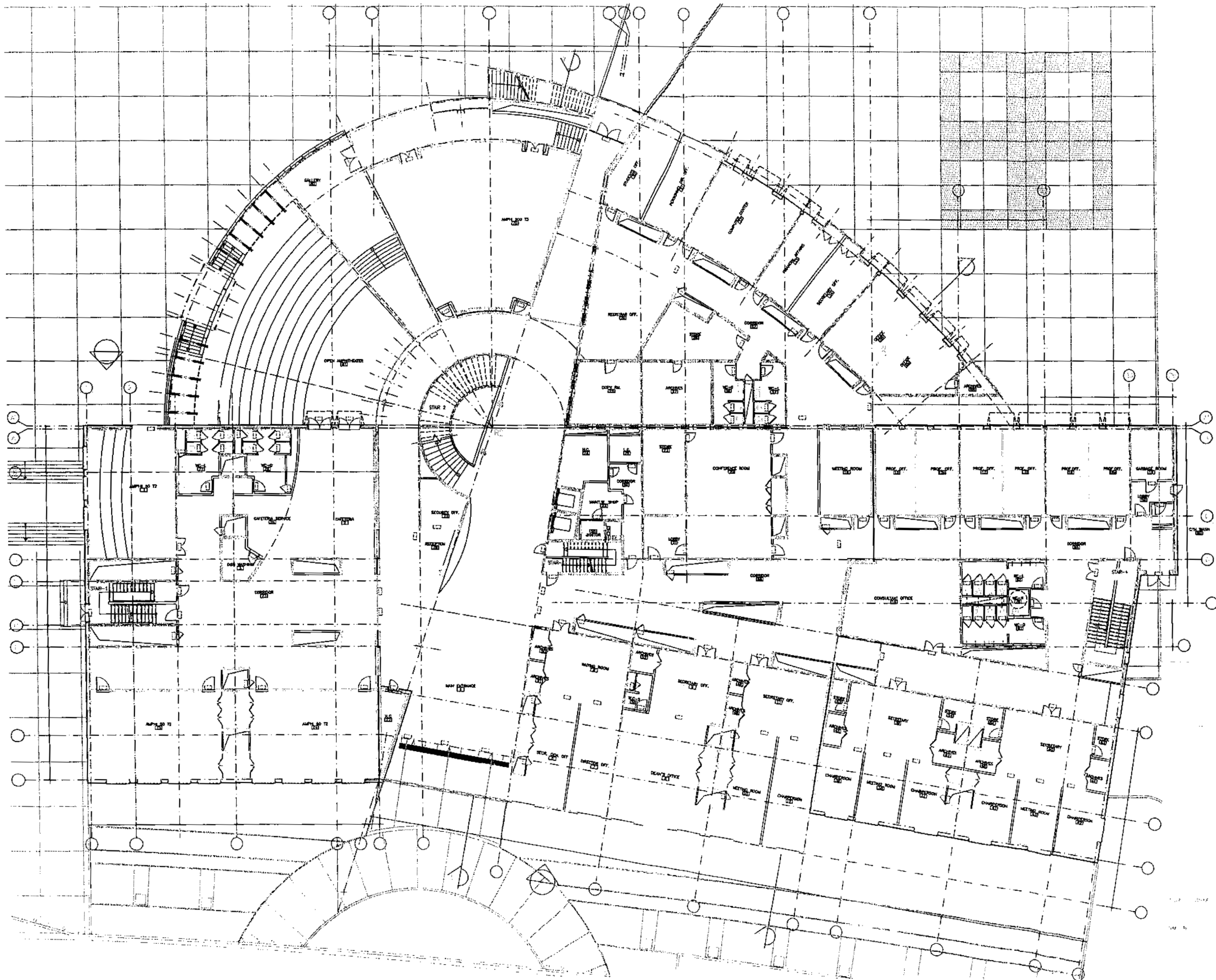
 : CONCRETE TILE 40x40x4 cm TO BE LOOSE LAD






 : GRAVEL 2.5 cm SIZE

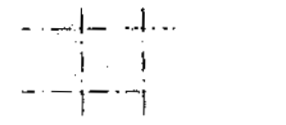
- 1- ALL EXTERNAL WALLS ARE SYNTHETIC STUCCO FINISHED
- 2- ALL EXTERNAL STEEL DOORS ARE RAL 9002 COLOR
- 3- ALL MECHANICAL ROOMS ON ATTIC ARE NOT PAINTED
- 4- ROOF TOP ARE COVERED WITH GRAVEL EXCEPT FOR PASSAGES (SEE PLAN FOR LOCATIONS)

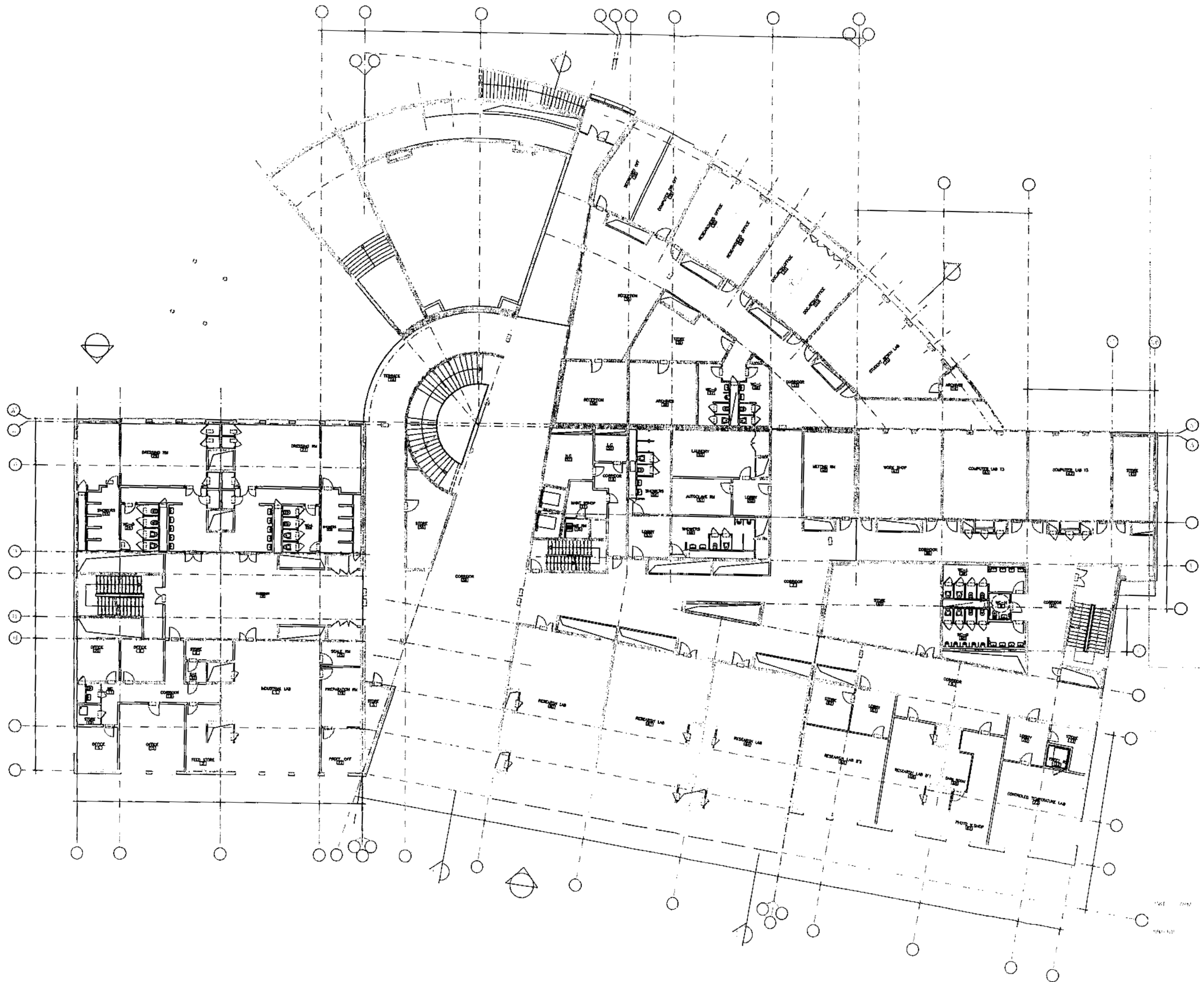


-  ELECTRICAL ROOM
-  MECHANICAL ROOM
-  BACK-FILLING
-  STRUCTURAL WALL
-  DOOR
-  WINDOW
-  STAIRCASE
-  ELEVATOR
-  UTILITY ROOM
-  STORAGE ROOM

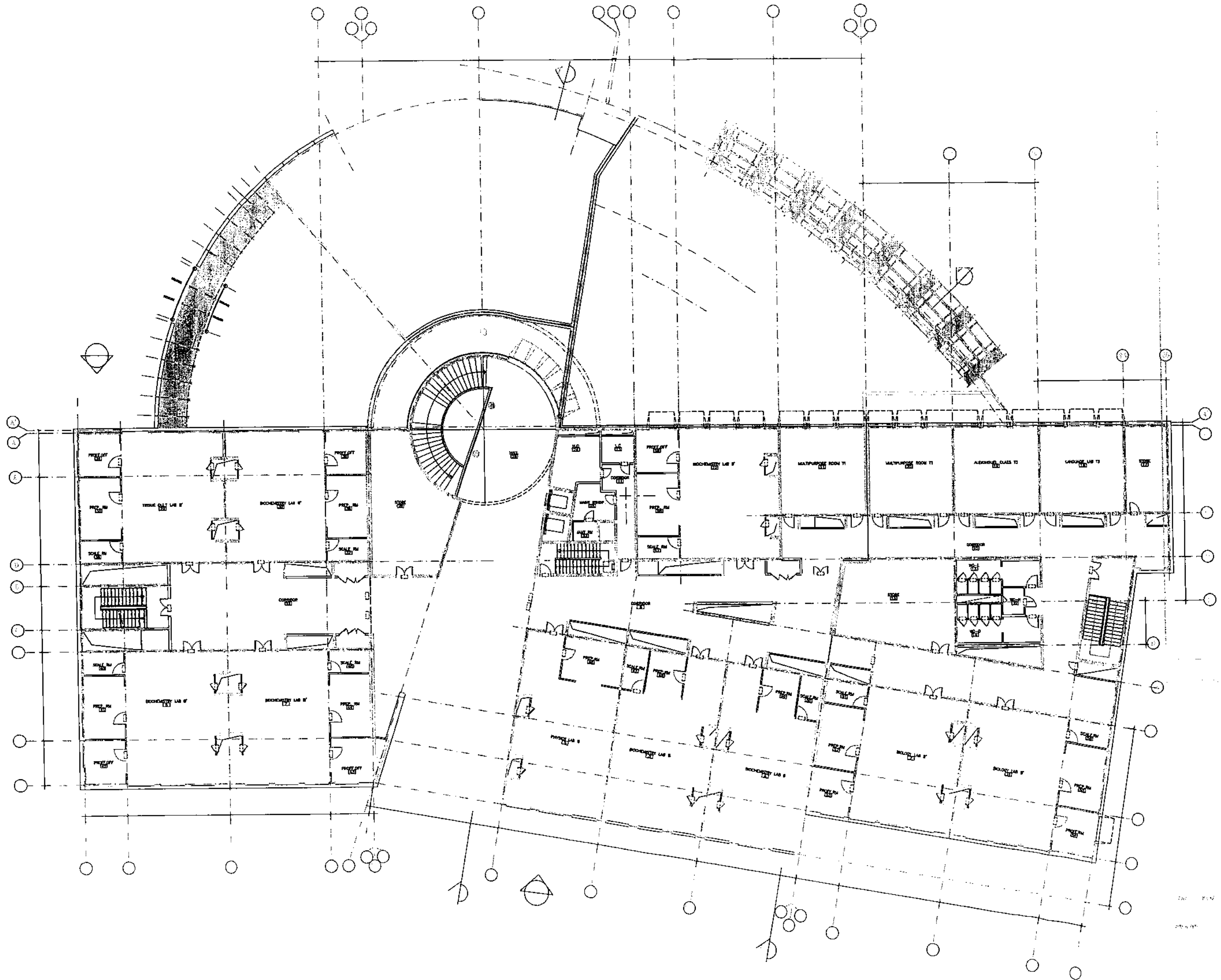


-  WALL WITH DOOR
 ALL DOORS OPEN TO RIGHT
-  WALL WITH WINDOW
 ALL WINDOWS OPEN TO RIGHT
-  DOOR WITH HANDLE
 HANDLE SIDE OF DOOR
-  DOOR WITH LOCK
 LOCK SIDE OF DOOR
-  DOOR WITH PUSH BAR
 PUSH BAR SIDE OF DOOR

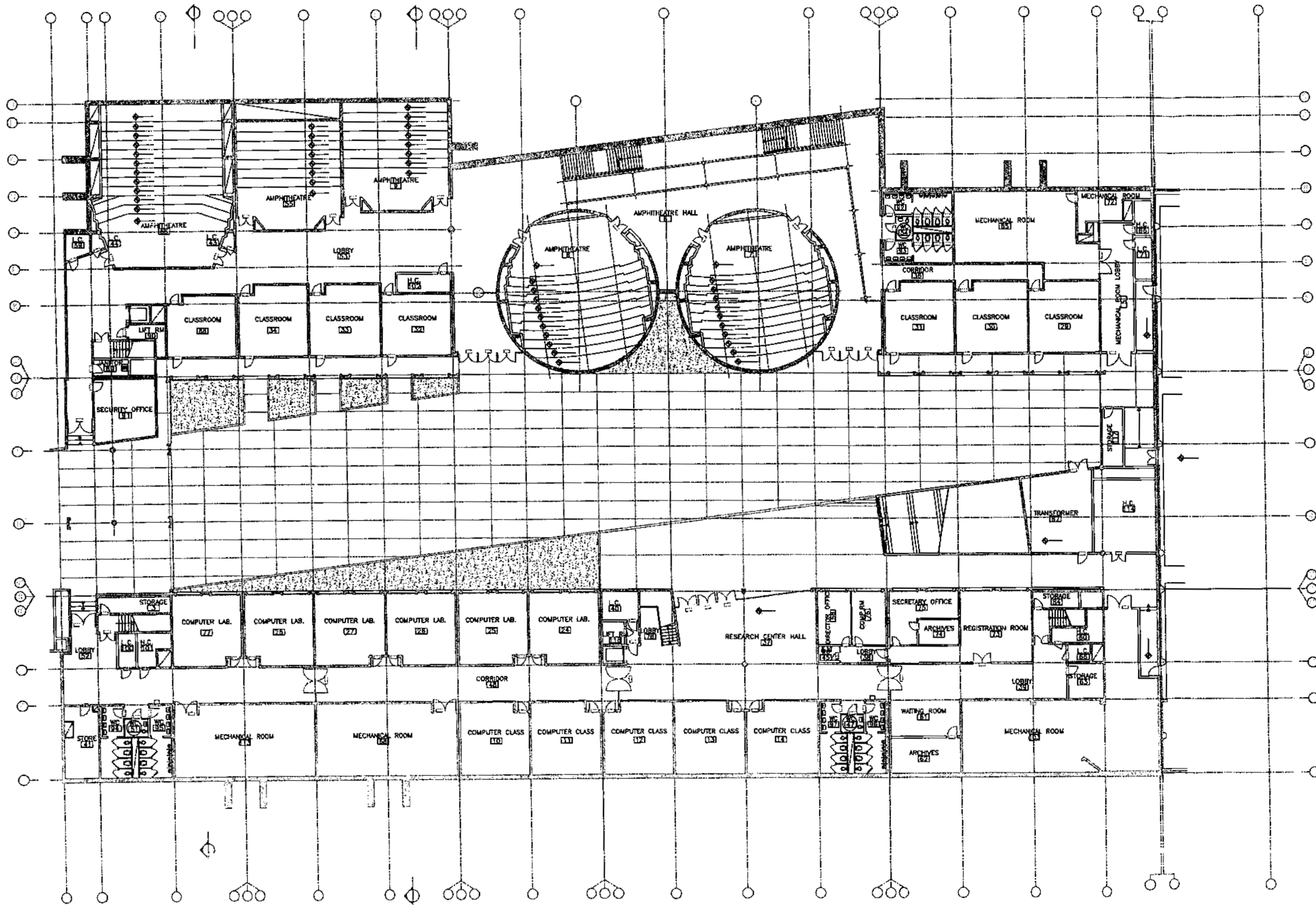




- 1. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 2. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 3. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 4. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 5. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 6. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 7. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 8. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 9. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.
- 10. ALL ROOMS SHALL BE VENTILATED AND EXHAUSTED.



- WALL TYPE 1 - CONCRETE WALL WITH INSULATION
- WALL TYPE 2 - CONCRETE WALL WITH INSULATION
- WALL TYPE 3 - CONCRETE WALL WITH INSULATION
- WALL TYPE 4 - CONCRETE WALL WITH INSULATION
- WALL TYPE 5 - CONCRETE WALL WITH INSULATION
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- WALL TYPE 99 - CONCRETE WALL WITH INSULATION
- WALL TYPE 100 - CONCRETE WALL WITH INSULATION

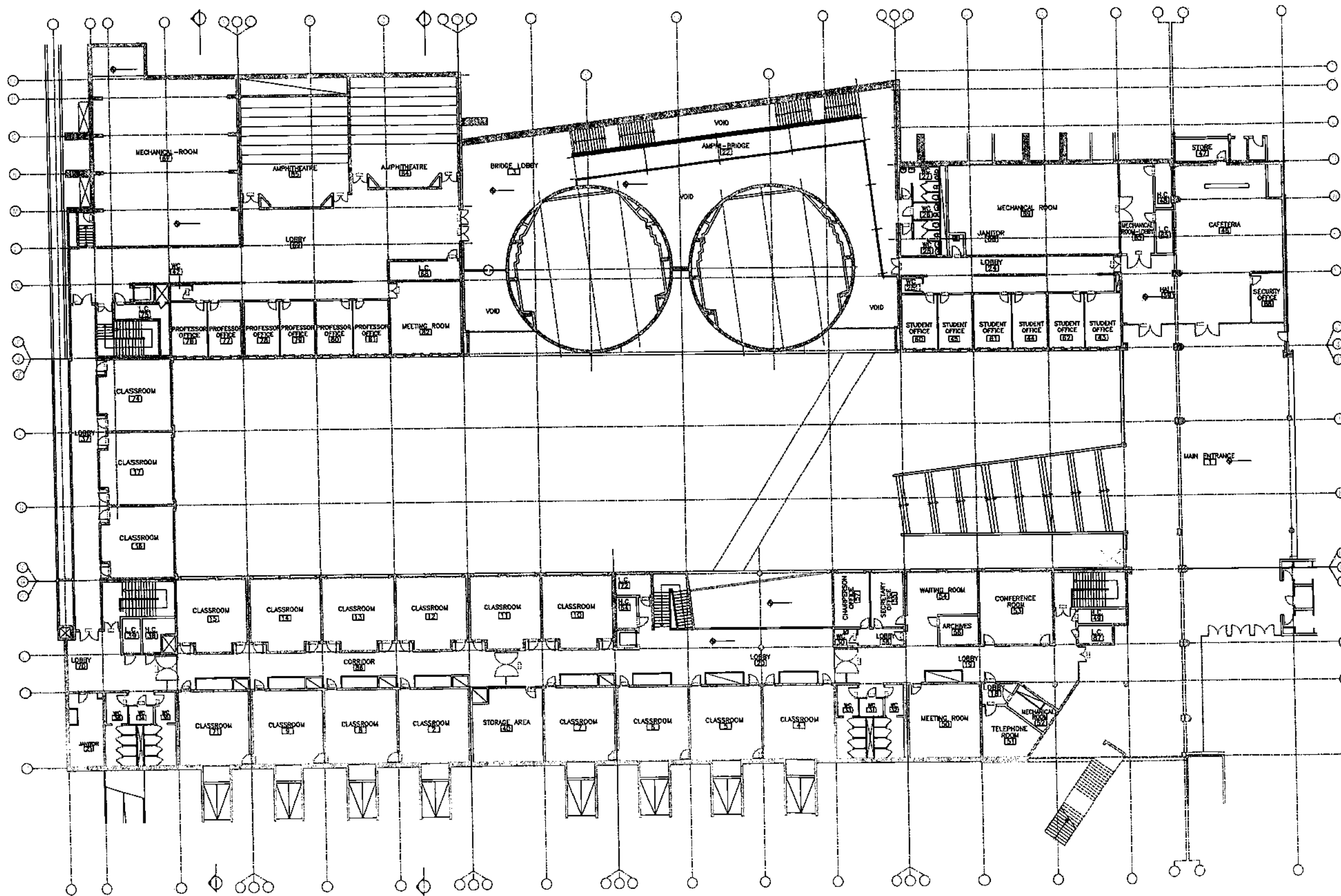


NOVEMBER	DTC	STAGE

Legend for symbols used in the floor plan:

- DOOR (100)
- WINDOW (101)
- STAIRCASE (102)
- ELEVATOR (103)
- MECHANICAL ROOM (104)
- COMPUTER LAB/CLASS (105)
- STORAGE (106)
- WAITING ROOM (107)
- SECRETARY OFFICE (108)
- ARCHIVES (109)
- REGISTRATION ROOM (110)
- RESEARCH CENTER HALL (111)
- SECURITY OFFICE (112)
- TRANSFORMER (113)
- MECHANICAL ROOM LOBBY (114)
- STORAGE (115)

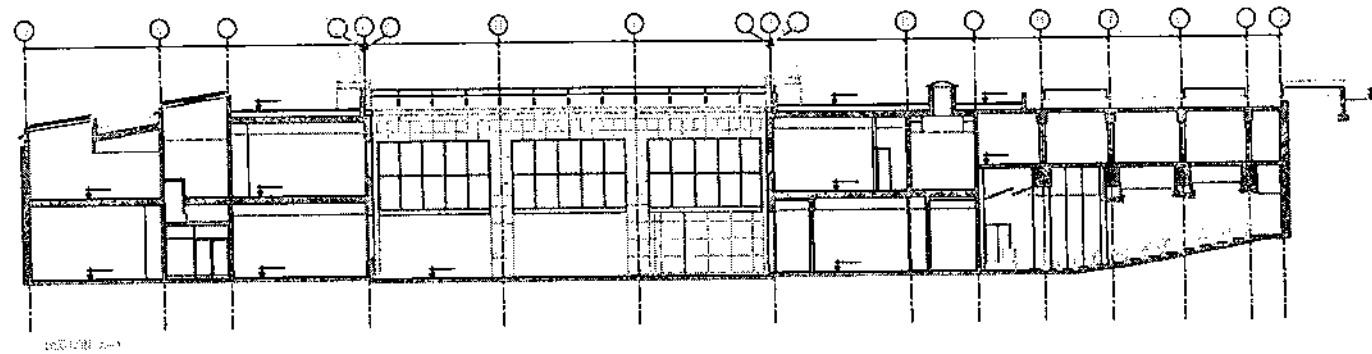
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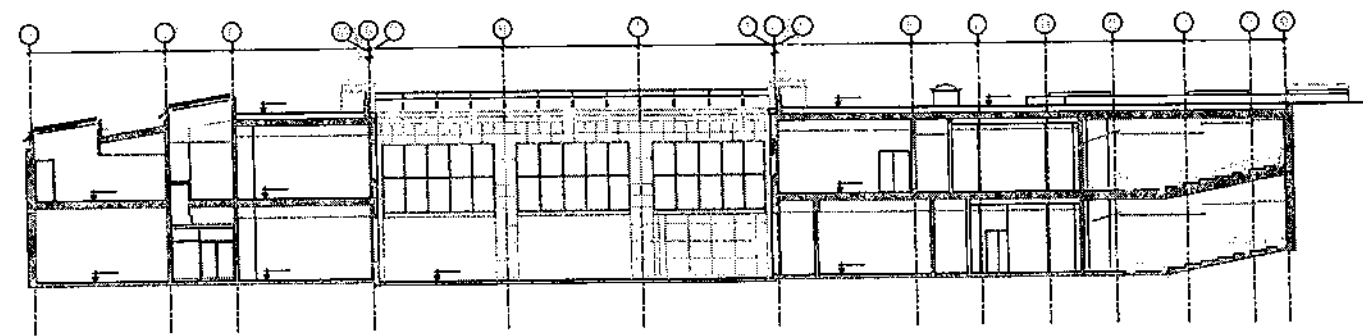
NO.	DATE	SUBJECT

- NO. 1001 - DOOR SWING
 SHOWS SWING AND OPENING TO ROOM
- NO. 1002 - WINDOW
 SHOWS WINDOW TYPE AND OPENING TO ROOM
- NO. 1003 - WALL OPENING
 SHOWS OPENING TO ROOM AND OPENING TO ROOM
- NO. 1004 - WALL OPENING WITH DOOR
 SHOWS OPENING TO ROOM AND OPENING TO ROOM
- NO. 1005 - WALL OPENING WITH DOOR AND WINDOW
 SHOWS OPENING TO ROOM AND OPENING TO ROOM
- NO. 1006 - WALL OPENING WITH DOOR AND WINDOW AND DOOR
 SHOWS OPENING TO ROOM AND OPENING TO ROOM









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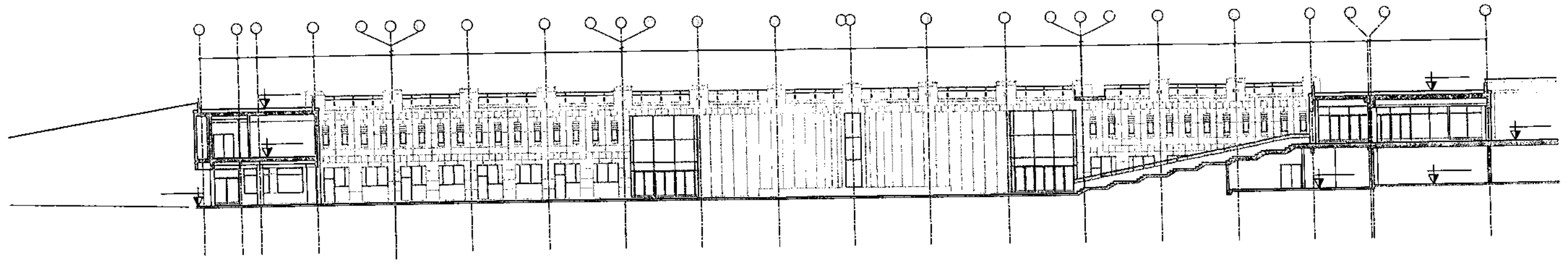


REVISION	DATE	REMARKS

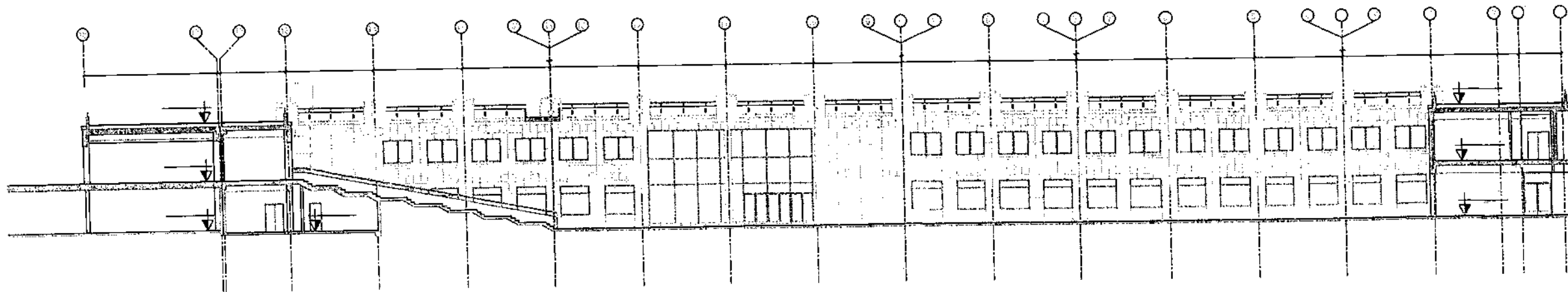
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 1. KONKRET
 2. BETON
 3. ISOLASYON
 4. YER KAPANI
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 5. DUVAR
 6. TAVAN
 7. ZEMİN KATMANI
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 8. DUVAR
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 11. DUVAR
 12. TAVAN
 13. ZEMİN KATMANI







1:500 2/21

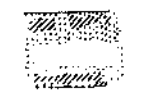


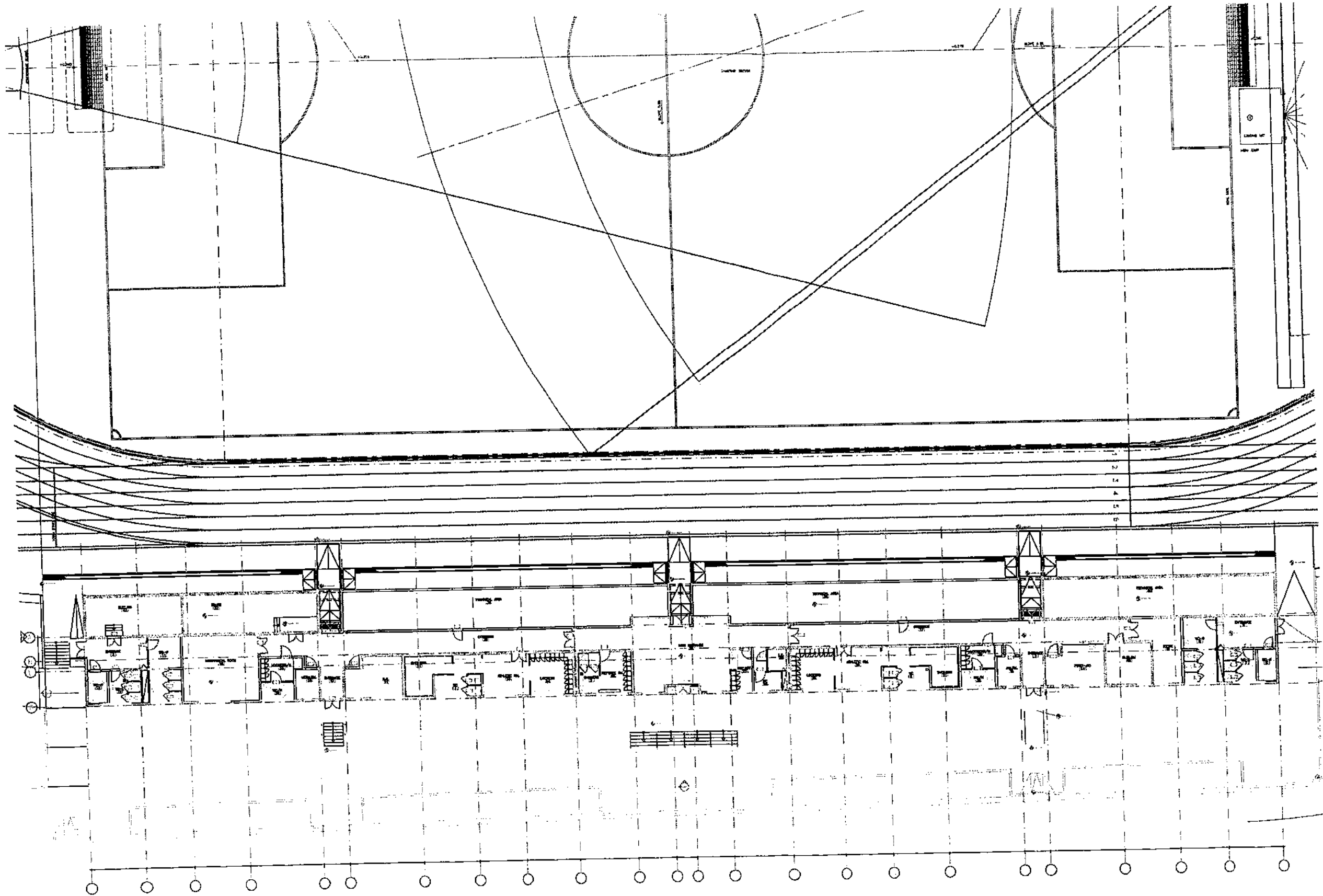
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


PERSON	DATE	REVISION

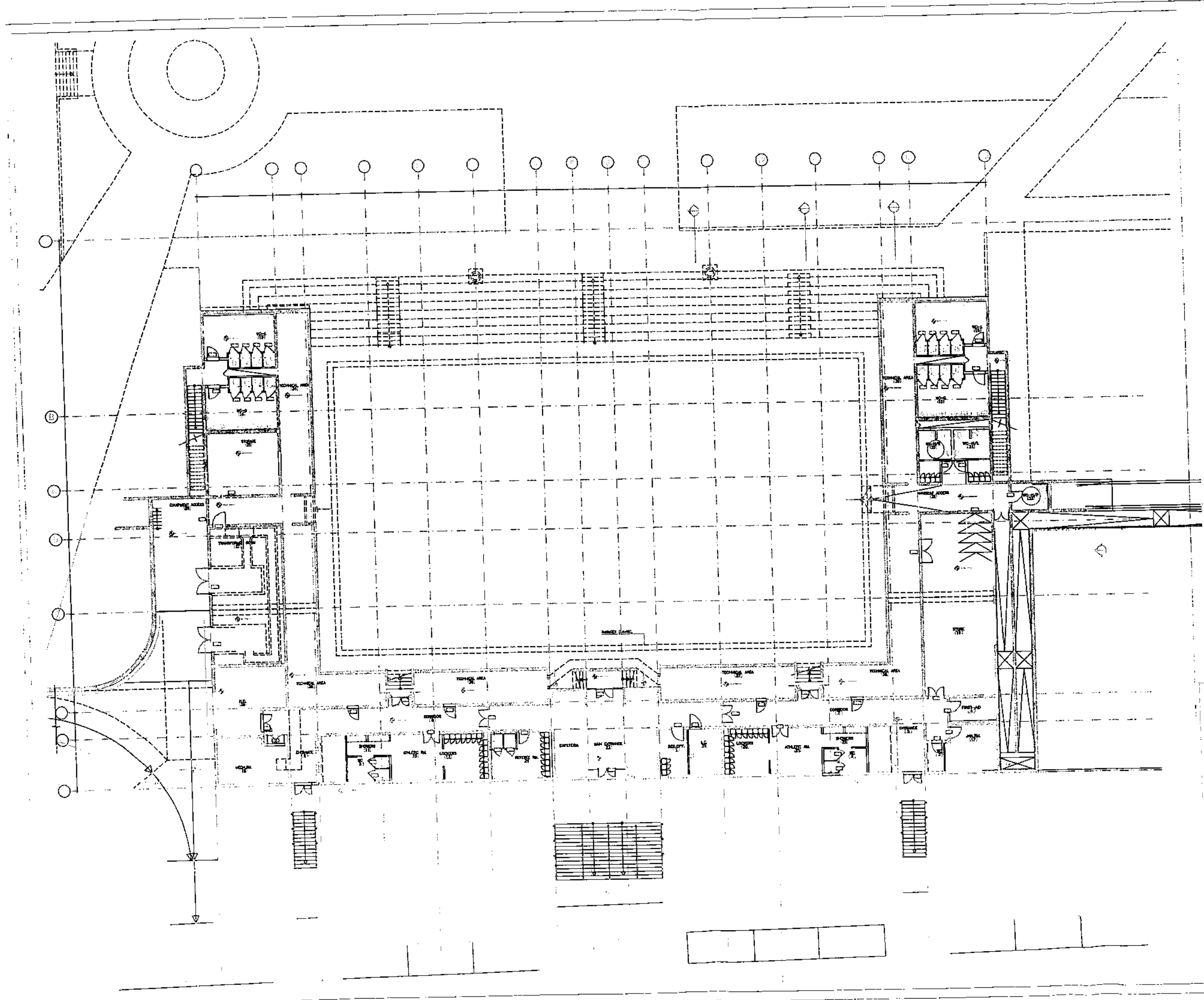
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 SYMBOL FOR THE POSITION OF THE COLUMN AND BEAM.
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 SYMBOL FOR THE POSITION OF THE COLUMN AND BEAM.





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 3. 1" = 1' - 0" SCALE
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 4. 1" = 1' - 0" SCALE
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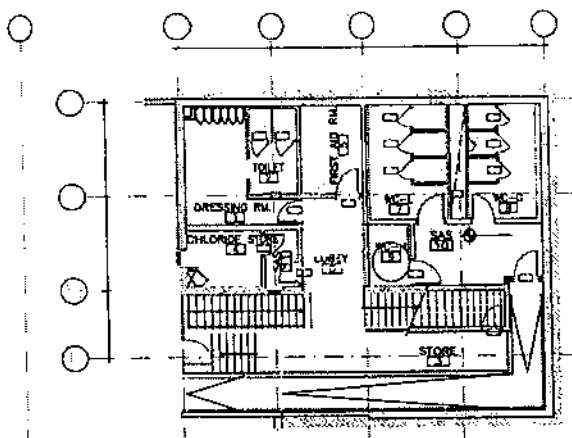




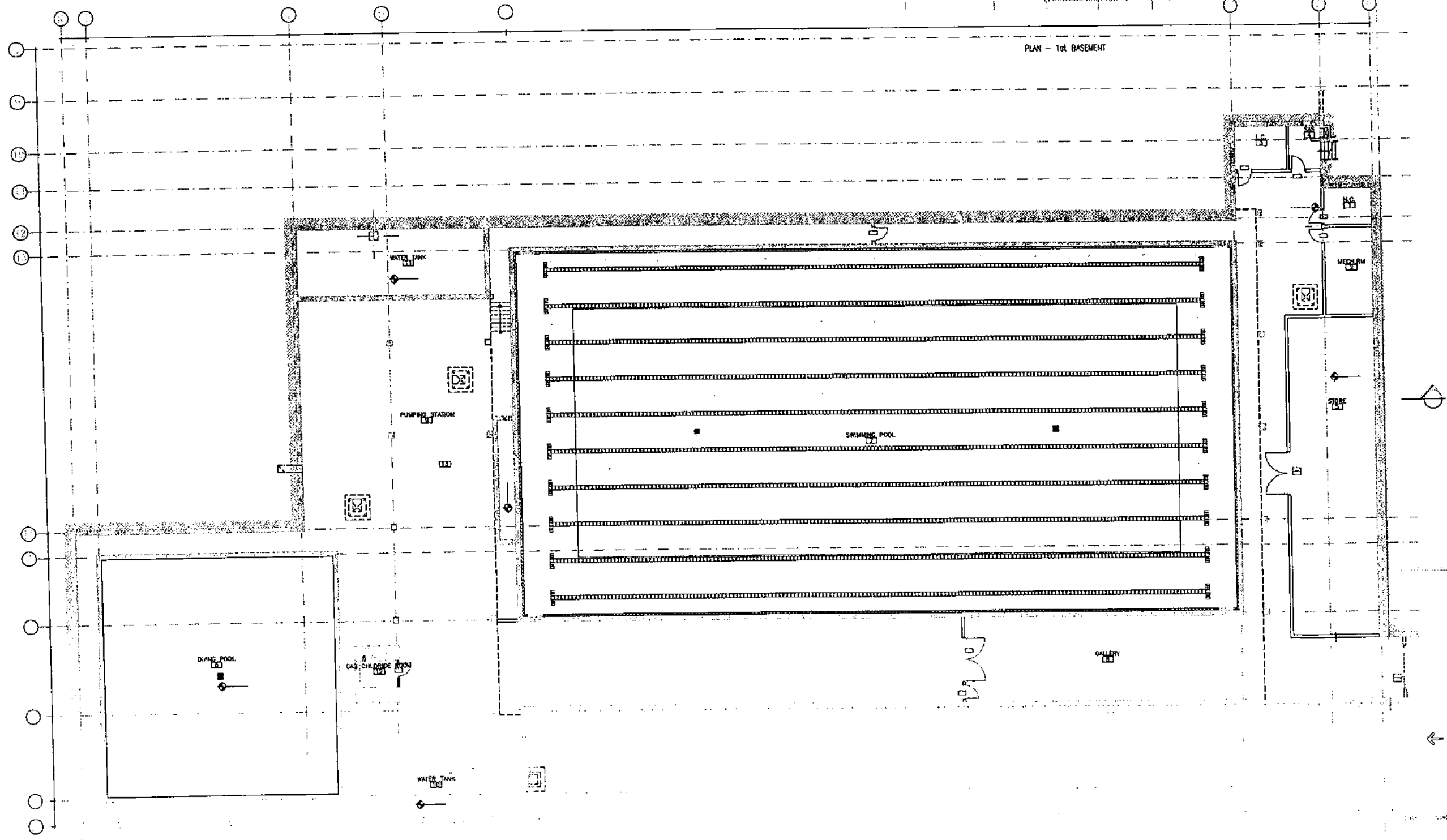
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PLAN - 1st BASEMENT



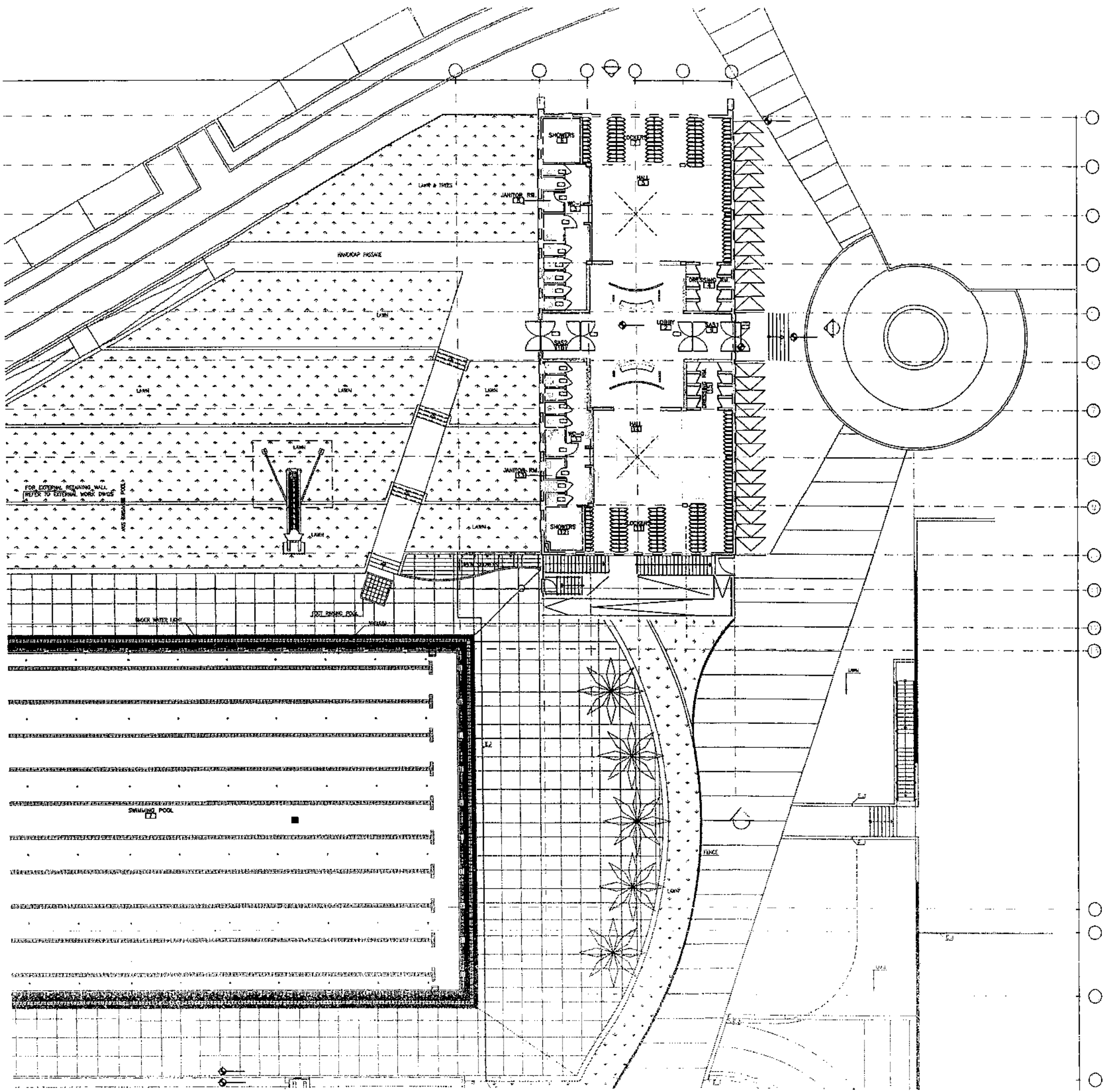
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


Legend for symbols and notes:

- Symbol: [Square with 'S'] - POOL, WATER TANK
- Symbol: [Square with 'P'] - PUMP STATION
- Symbol: [Square with 'G'] - GAS CYLINDER ROOM
- Symbol: [Square with 'W'] - WATER TANK
- Symbol: [Square with 'D'] - DRAIN
- Symbol: [Square with 'E'] - ELECTRICAL

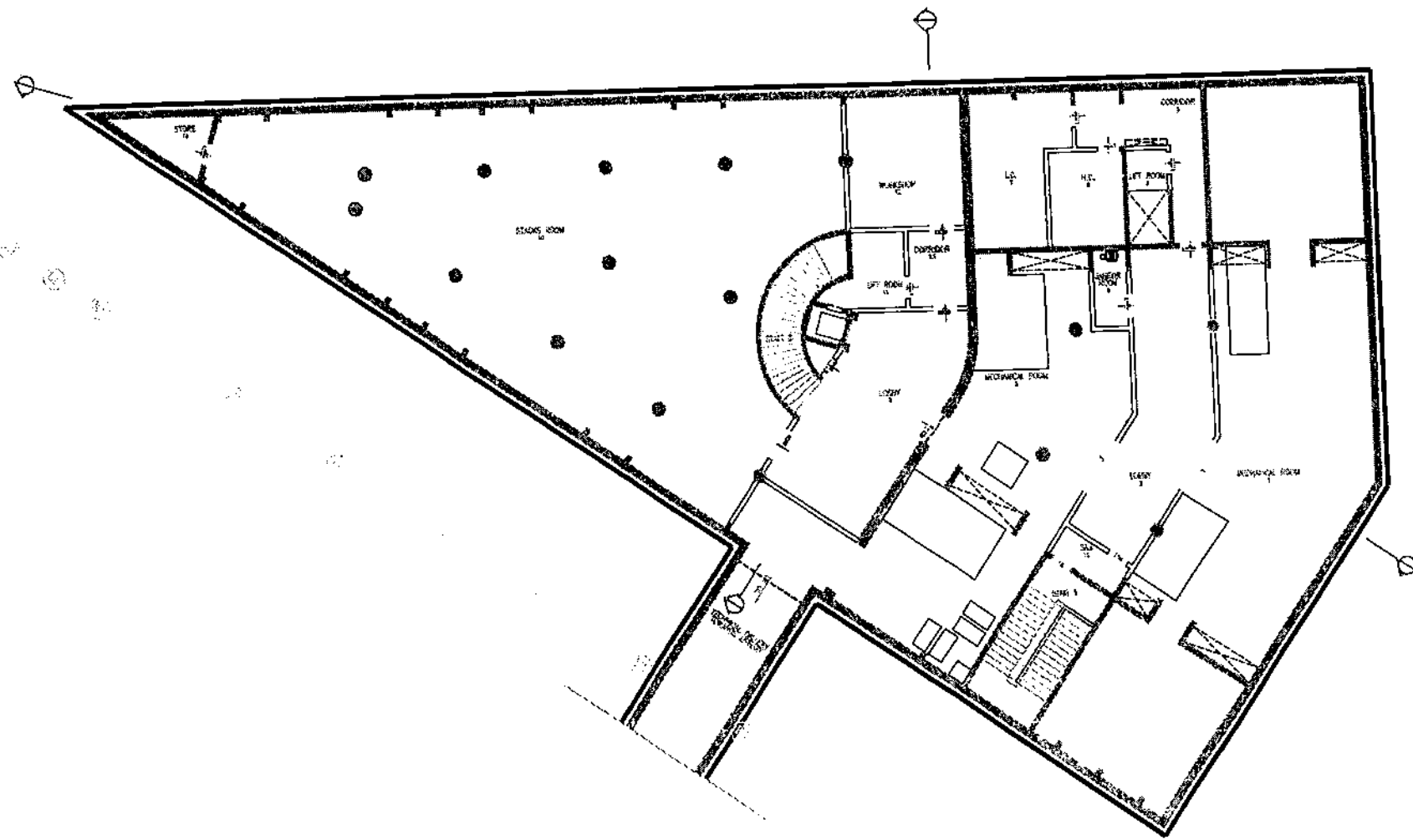
NOTES:

1. POOL, WATER TANK TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN.
2. PUMP STATION TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN.
3. GAS CYLINDER ROOM TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN.
4. WATER TANK TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN.
5. DRAIN TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN.
6. ELECTRICAL TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN.







- 
 CONCRETE RETAINING WALL
 SEE EXTERIOR WORK DRAWING
- 
 LAWN & TREES
 SEE EXTERIOR WORK DRAWING
- 
 POOL DECK
 SEE EXTERIOR WORK DRAWING
- 
 POOL
 SEE EXTERIOR WORK DRAWING
- 
 POOL DECK WITH STAIRS
 SEE EXTERIOR WORK DRAWING

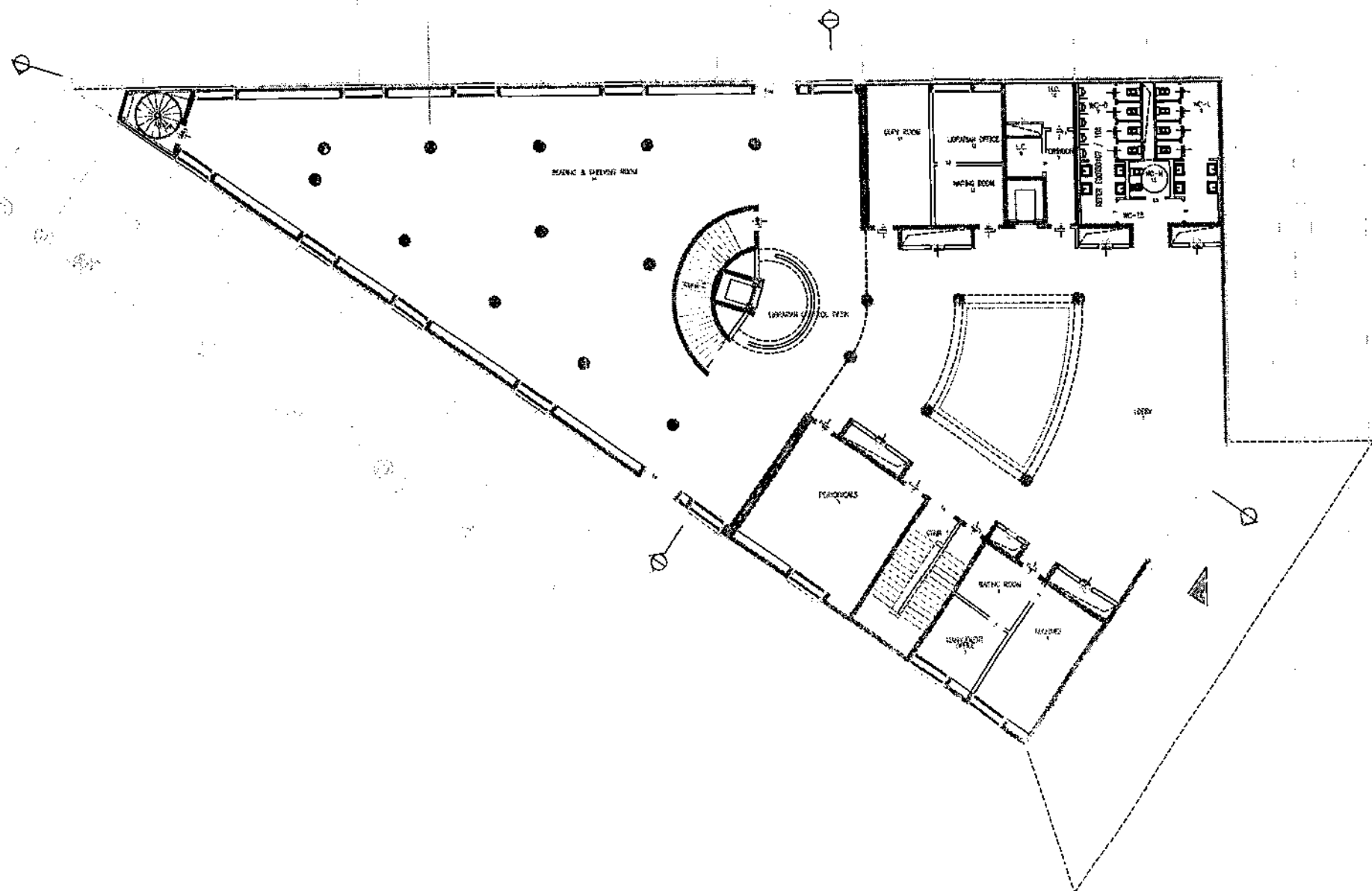




REVISION	DATE	DESCRIPTION

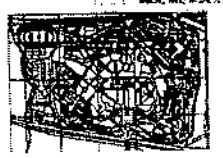
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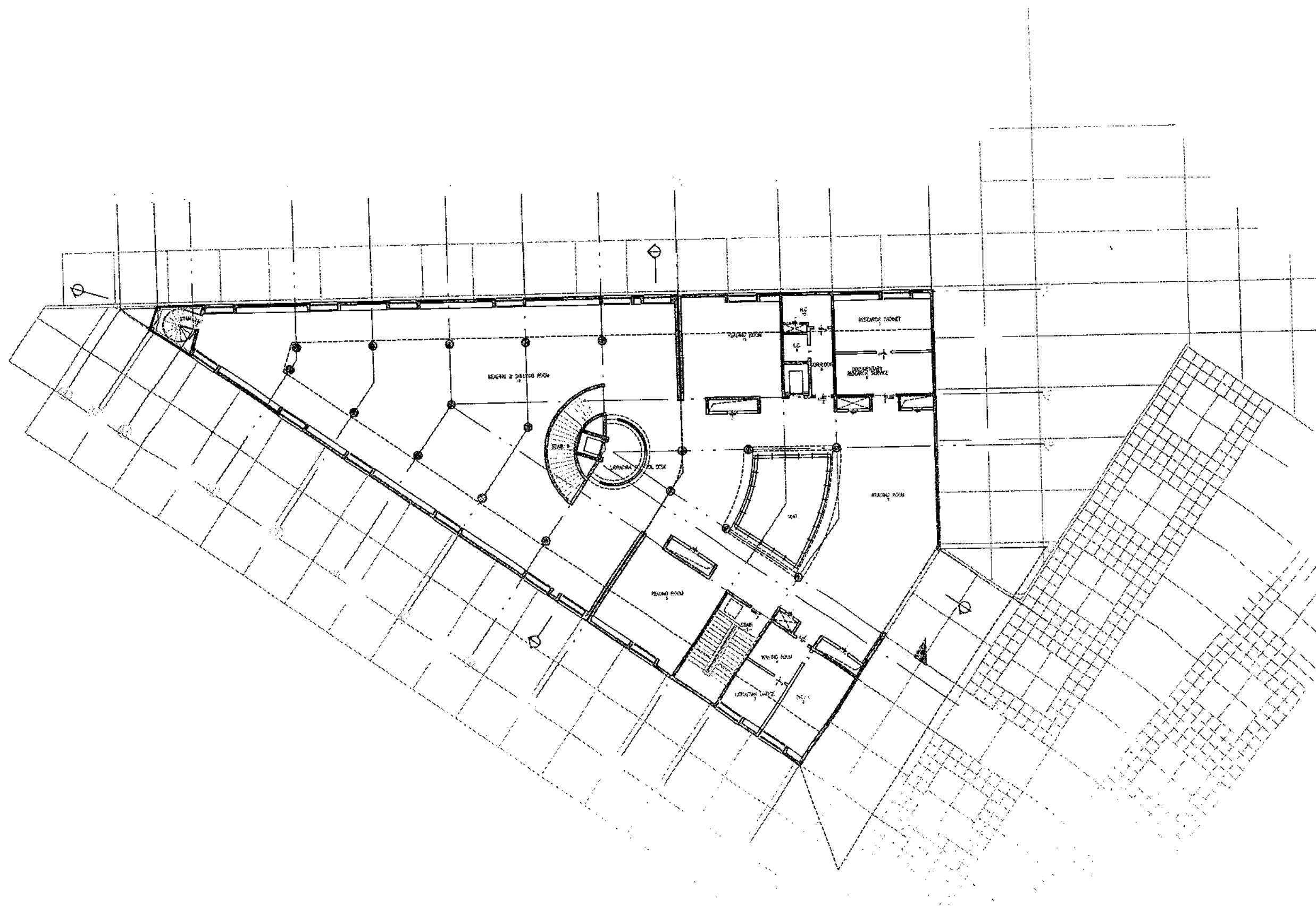




REVISION	DATE	BY/RT

- 1000 12" DIA. CONCRETE COLUMN
- 1001 4" THICK CONCRETE WALL
- 1002 4" THICK CONCRETE DOOR
- 1003 4" THICK CONCRETE WINDOW





REVISION	DATE	DESCRIPTION



WALL WITH DOOR - DRAWN TO SCALE

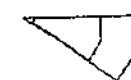
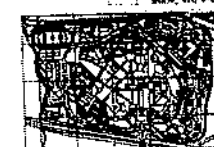
WALL WITH WINDOW - DRAWN TO SCALE

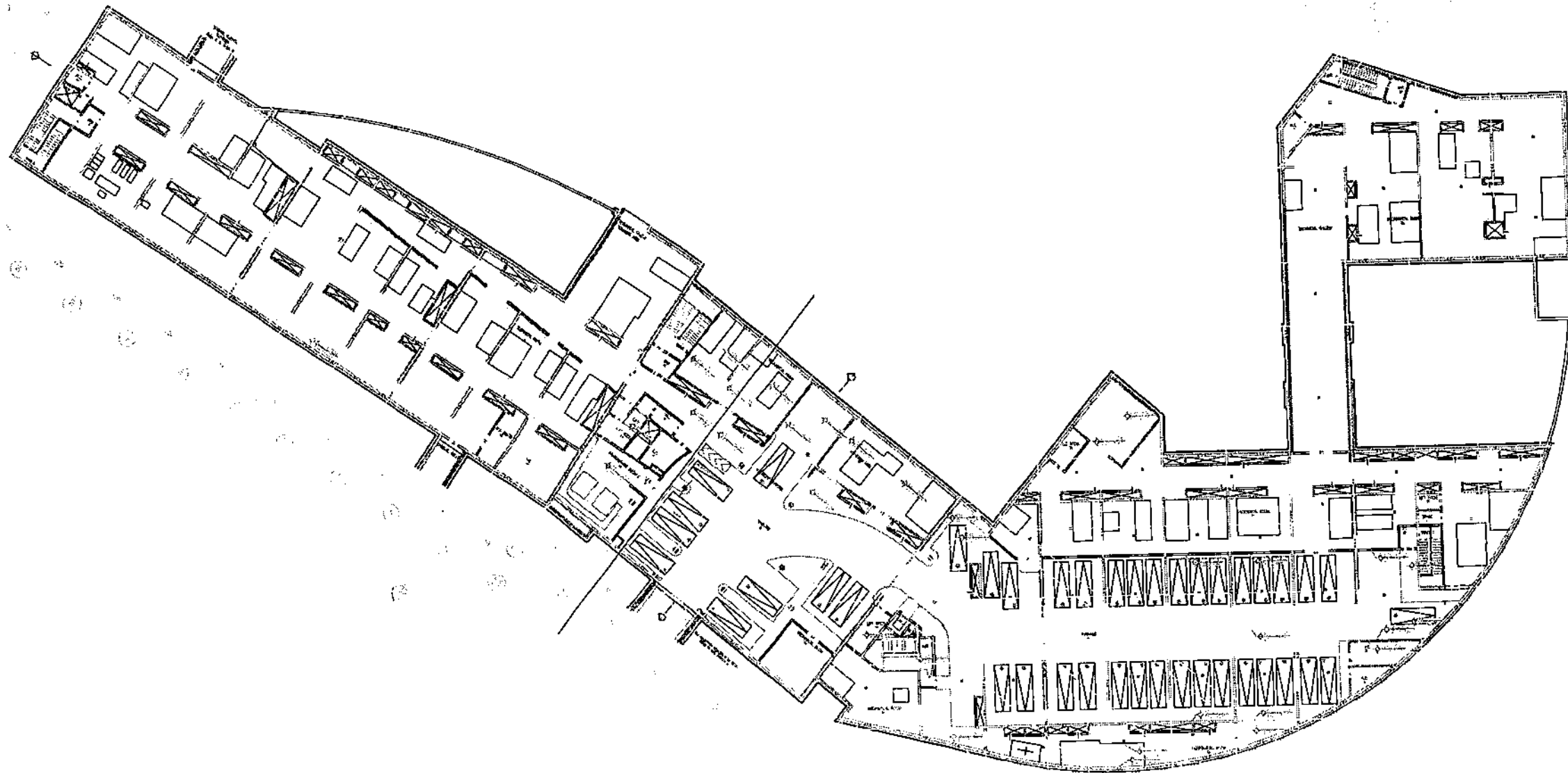
WALL WITH DOOR AND WINDOW - DRAWN TO SCALE





WALL WITH WINDOW - DRAWN TO SCALE

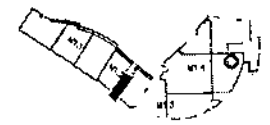
WALL WITH DOOR - DRAWN TO SCALE

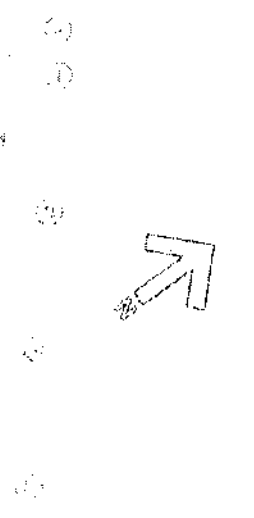
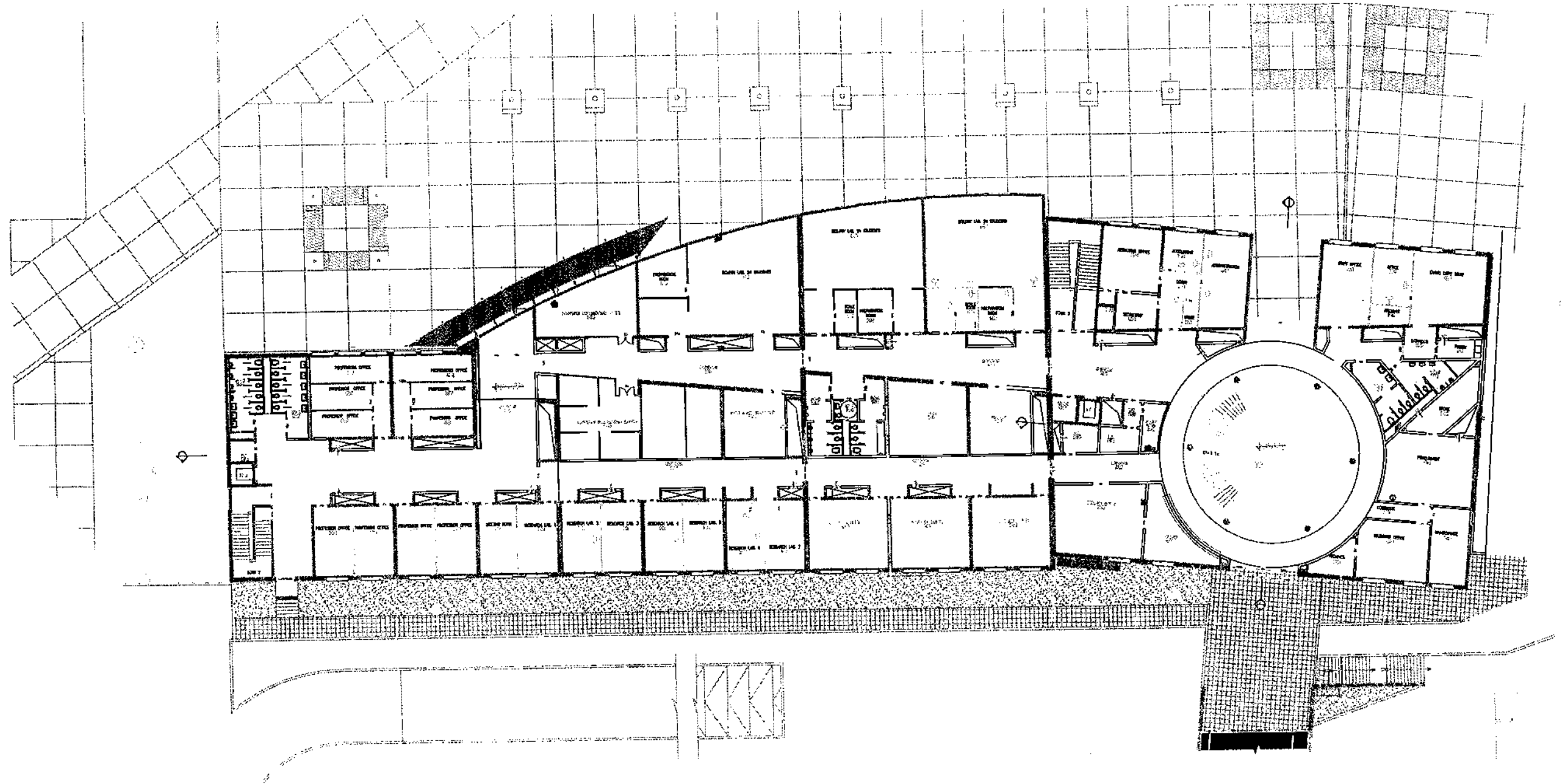
WALL WITH WINDOW - DRAWN TO SCALE





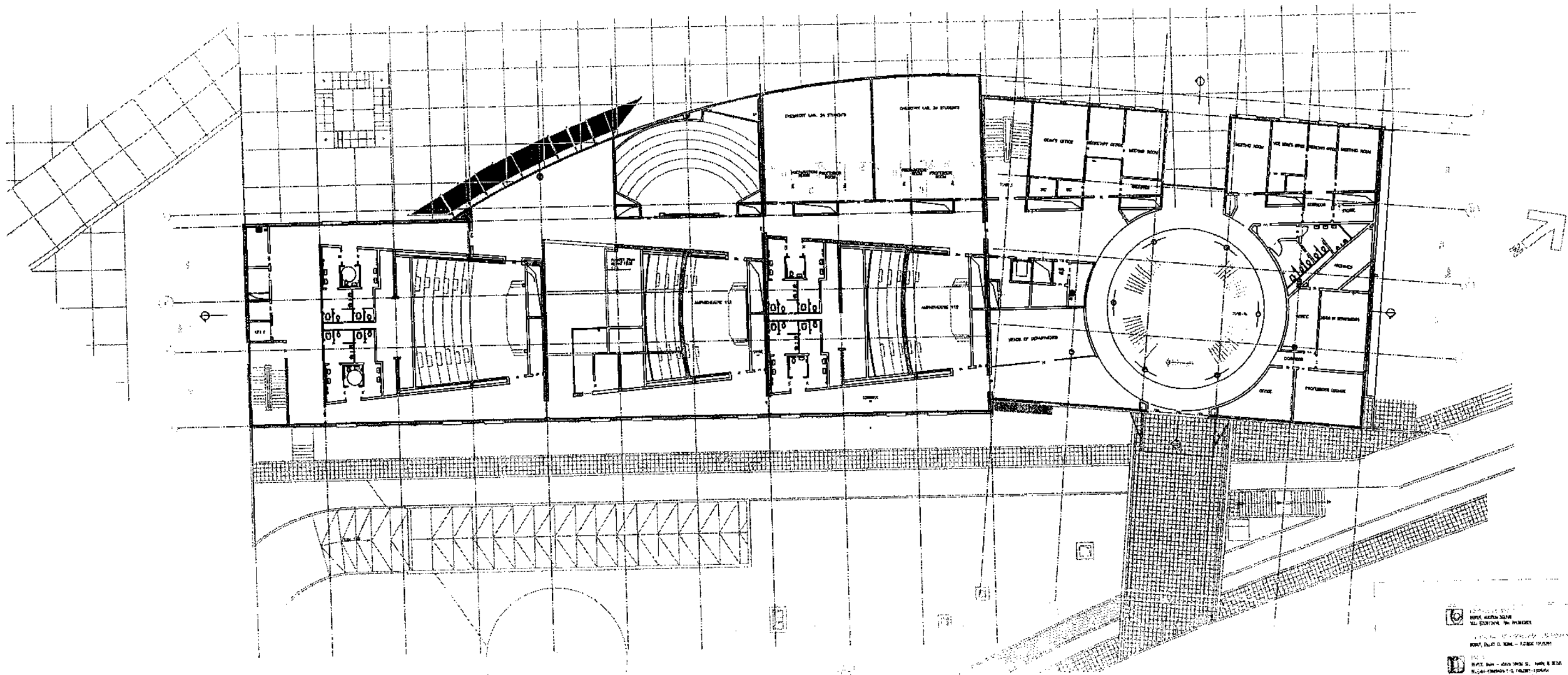
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 1. 100% COMPLETE
 NEW WORK ONLY
 (SEE SHEET 100-100)
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 2. 100% COMPLETE
 NEW WORK ONLY
 (SEE SHEET 100-100)
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 3. 100% COMPLETE
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 (SEE SHEET 100-100)
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 4. 100% COMPLETE
 NEW WORK ONLY
 (SEE SHEET 100-100)








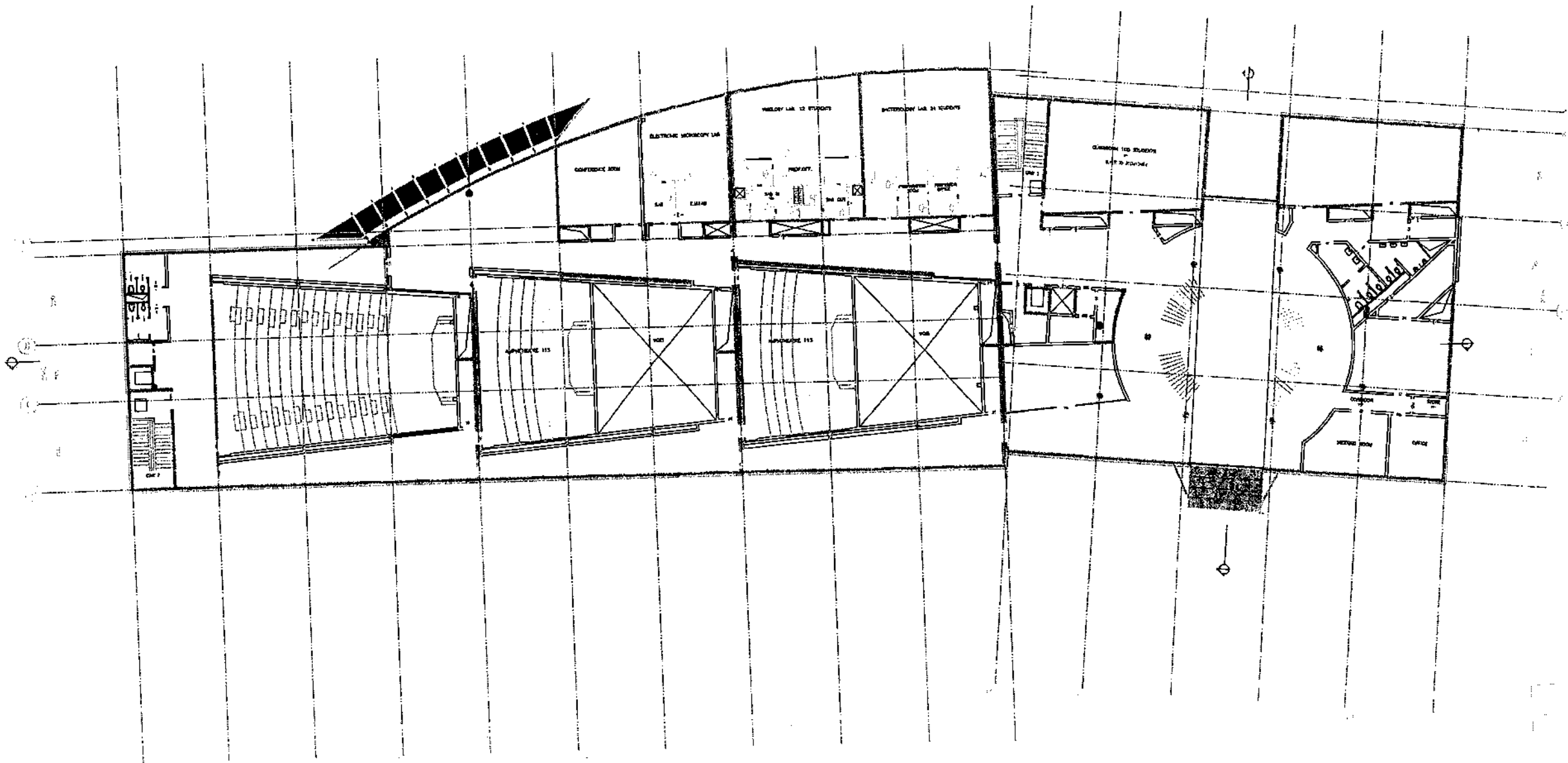
- 1. WALL AND CEILING FINISHES
- 2. FLOOR FINISHES
- 3. ROOF FINISHES
- 4. MECHANICAL EQUIPMENT
- 5. STRUCTURAL ELEMENTS





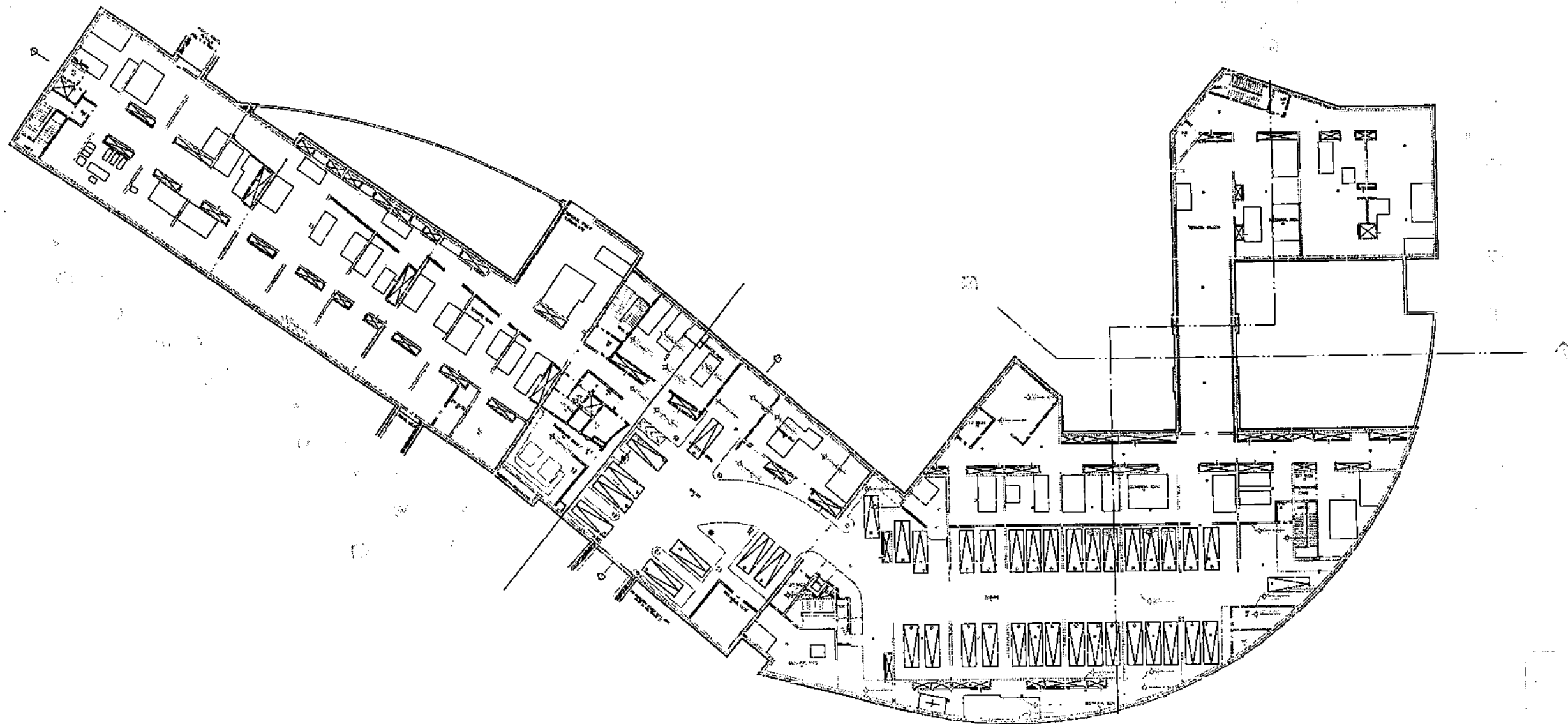
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 1. DEPARTMENT LAB. IN STUDENT
 2. DEPARTMENT LAB. IN STUDENT
 3. DEPARTMENT LAB. IN STUDENT
- 
 4. CLERK'S OFFICE
 5. RECEPTION OFFICE
 6. MEETING ROOM
 7. OFFICE
 8. PROFESSOR'S OFFICE
- 
 9. DEPARTMENT LAB. IN STUDENT
 10. DEPARTMENT LAB. IN STUDENT
 11. DEPARTMENT LAB. IN STUDENT









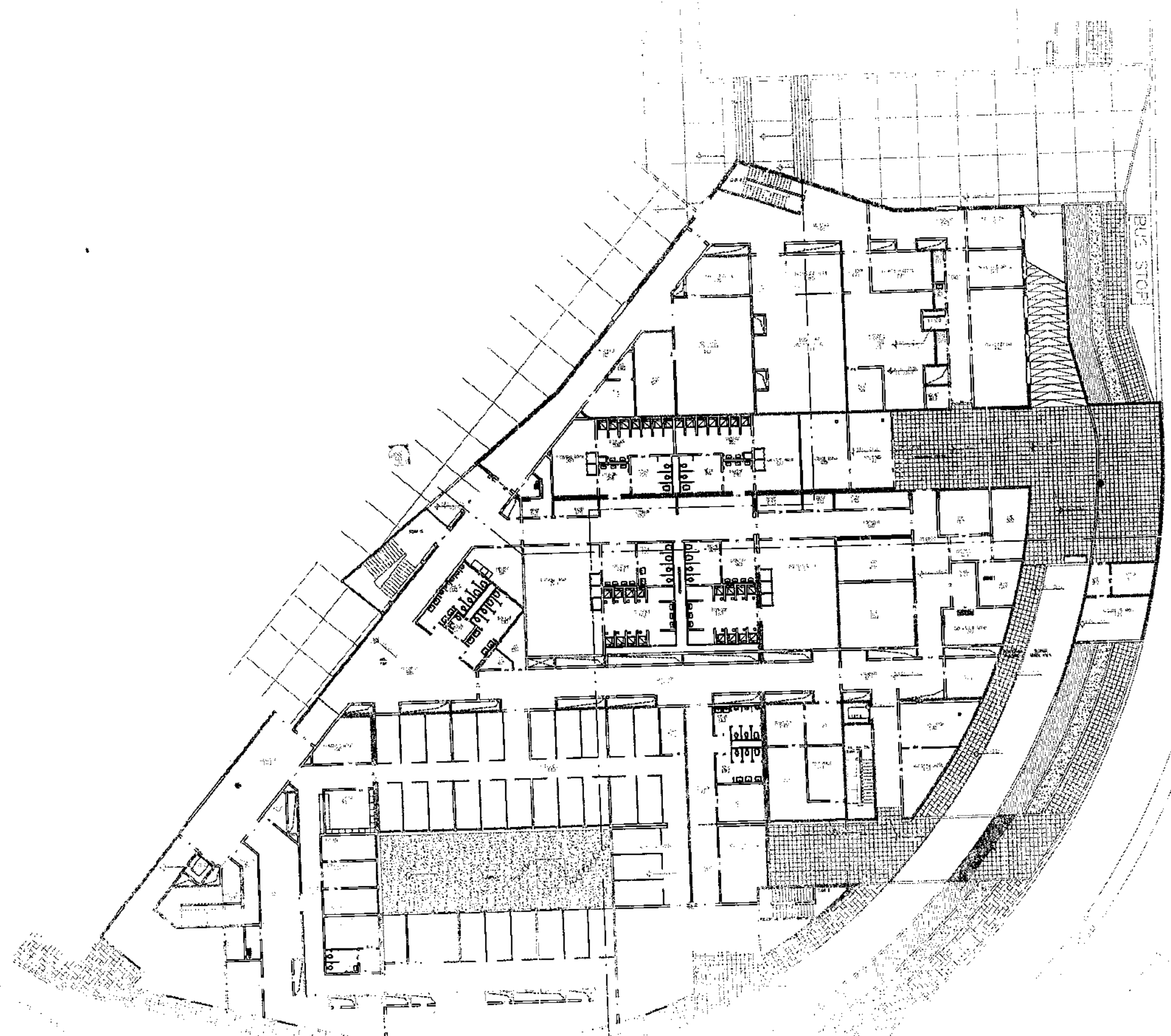
- 1. THIS SYMBOL INDICATES THE LOCATION OF THE MAIN ENTRANCE TO THE BUILDING.
- 2. THIS SYMBOL INDICATES THE LOCATION OF THE MAIN EXIT TO THE BUILDING.
- 3. THIS SYMBOL INDICATES THE LOCATION OF THE MAIN STAIRWELL.
- 4. THIS SYMBOL INDICATES THE LOCATION OF THE MAIN ELEVATOR.





-  **PLANTA DE ACCESORIOS**
MUEBLAS, ARMARIOS, SILLAS
DE OFICINA, PUL. MUEBLAS
-  **PLANTA DE ALUMINIO**
ALUMINIO, BARRAS, TUBOS, PERSIANAS
-  **PLANTA DE VENTANAS**
VENTANAS, PUERTAS, PASADIZOS, PASADIZOS
-  **PLANTA DE ACABADOS**
ACABADOS, PAREDES, TEJADO, SUELOS









BUS STOP

BUS STOP

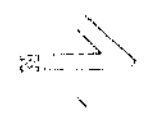
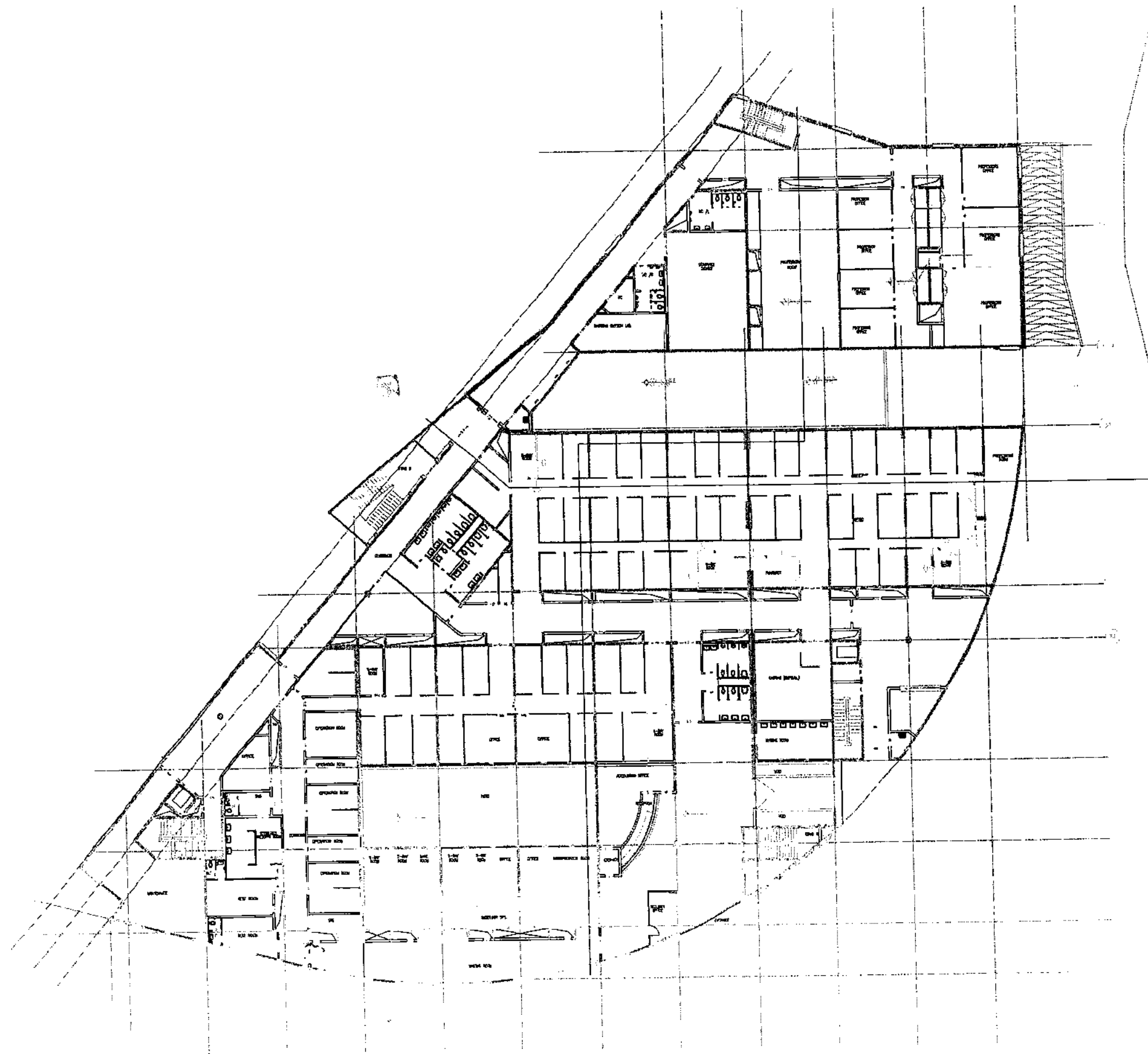


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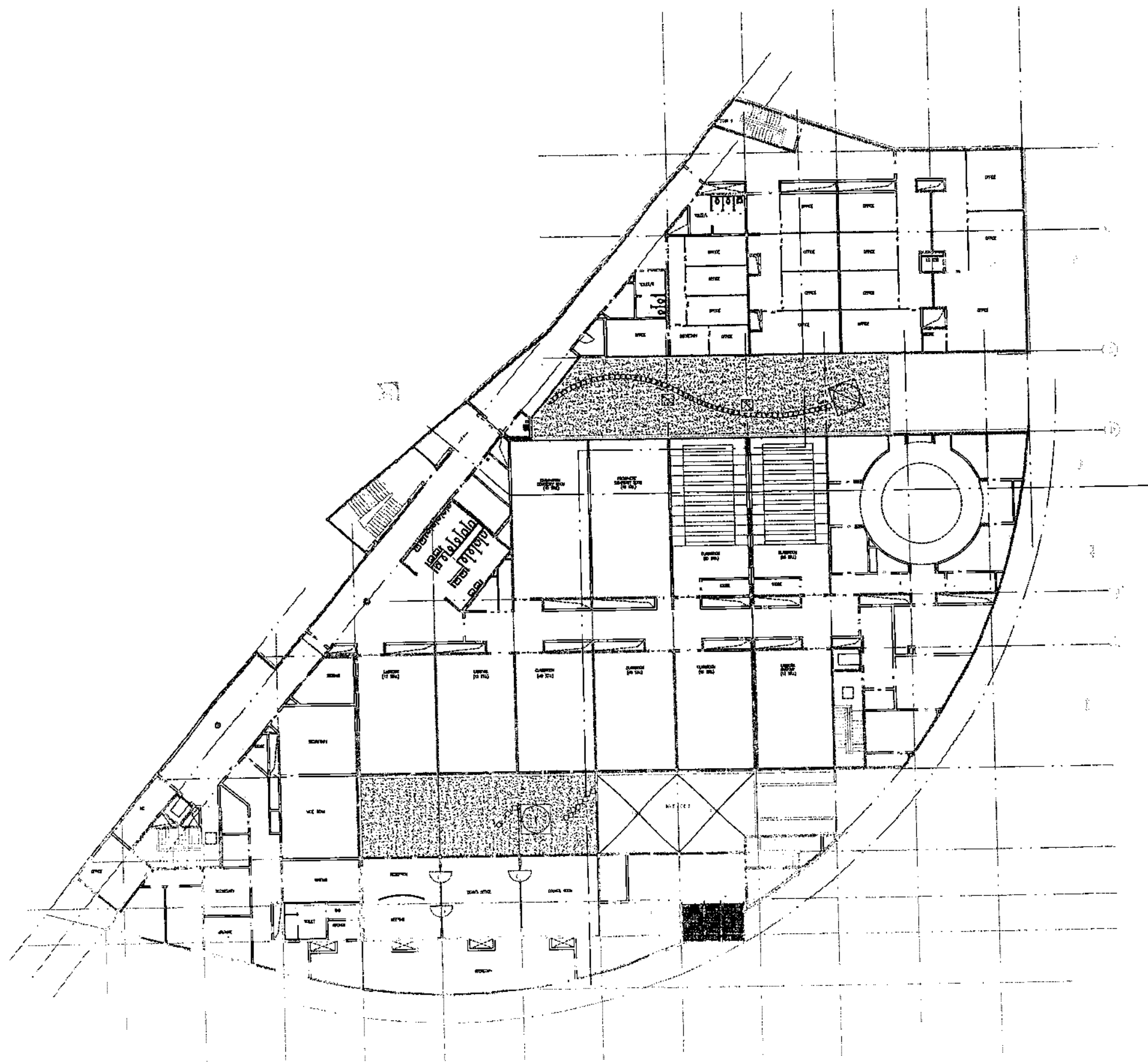
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Sheet 1 of 1



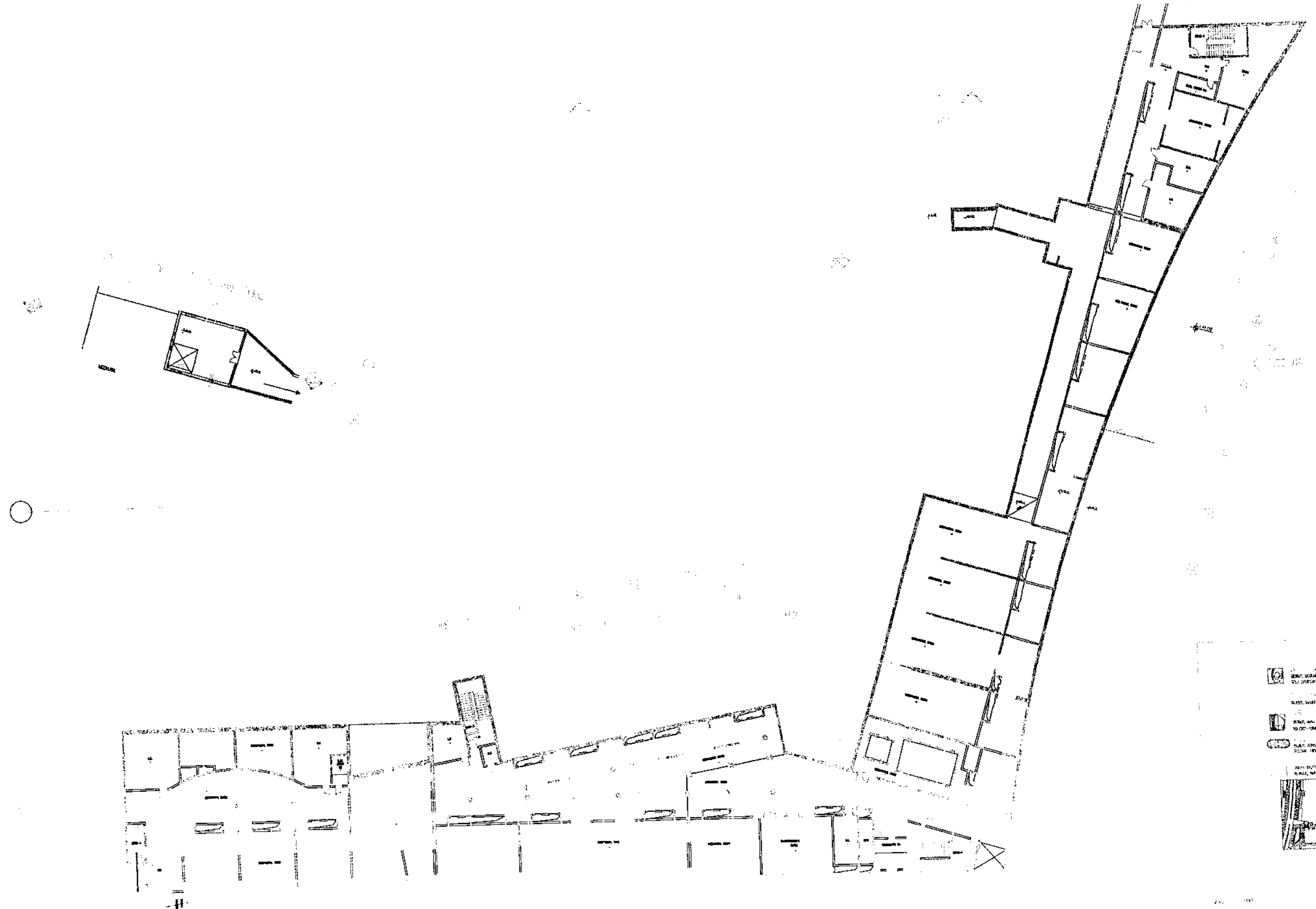
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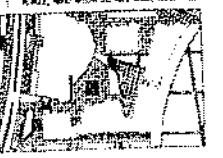


- 1. KAWAŁEK 1010-1019/1020
2. KAWAŁEK 1010-1019/1020
3. KAWAŁEK 1010-1019/1020
4. KAWAŁEK 1010-1019/1020
5. KAWAŁEK 1010-1019/1020





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 1. ROOMS TO BE DEMOLISHED - SEE NOTES
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 2. ROOMS TO BE REFINISHED - SEE NOTES
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 3. ROOMS TO BE REFINISHED - SEE NOTES
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 4. ROOMS TO BE REFINISHED - SEE NOTES



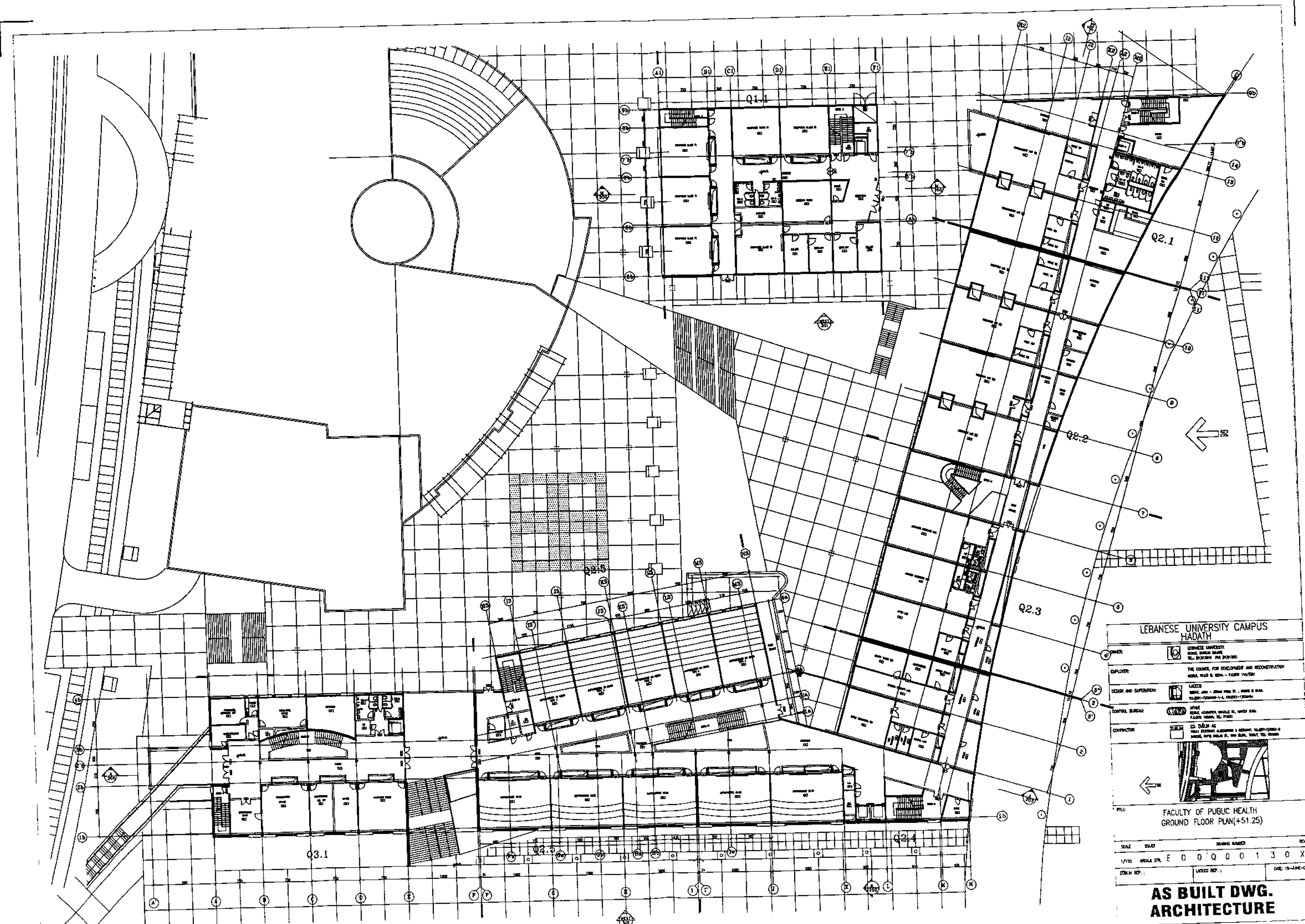


LEGENDA

- PORTA** - PORTA
 PORTA APERTA - PORTA CHIUSA
 PORTA APERTA - PORTA CHIUSA
- ALCANTARA** - ALCANTARA
 ALCANTARA APERTA - ALCANTARA CHIUSA
- ALCANTARA** - ALCANTARA
 ALCANTARA APERTA - ALCANTARA CHIUSA

PIANTA

PIANTA ARCHITETTURA - ALTEZZA 0,00 - QUOTAZIONE 1:100 - DATA 15/05/2017 - AUTORE: STUDIO ARCHITETTURA



LEBANESE UNIVERSITY CAMPUS HADATH

OWNER: LEBANESE UNIVERSITY
 10000 BEIRUT, LEBANON

EMPLOYER: THE OFFICE FOR EQUIPMENT AND RECONSTRUCTION
 WORK, P.L.C. - BEIRUT, LEBANON

DESIGN AND SUPERVISION: LACED
 10000 BEIRUT, LEBANON

CONTROL BUREAU: JAFZA
 10000 BEIRUT, LEBANON

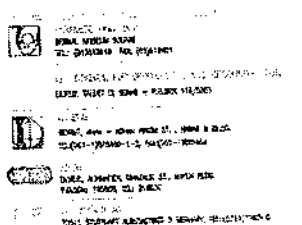
CONTRACTOR: ZULKAH
 10000 BEIRUT, LEBANON

FILE: FACULTY OF PUBLIC HEALTH
 GROUND FLOOR PLAN(+51.25)

SCALE	ISSUE	DRAWING NUMBER	REV
1/150	AREA 578	E 0 0 0 0 0 1 3 0 X	
DATE: 15-JUNE-05			

**AS BUILT DWG.
ARCHITECTURE**





 1. STAIRS, WALKWAYS, AND OTHER AREAS - SEE PLAN

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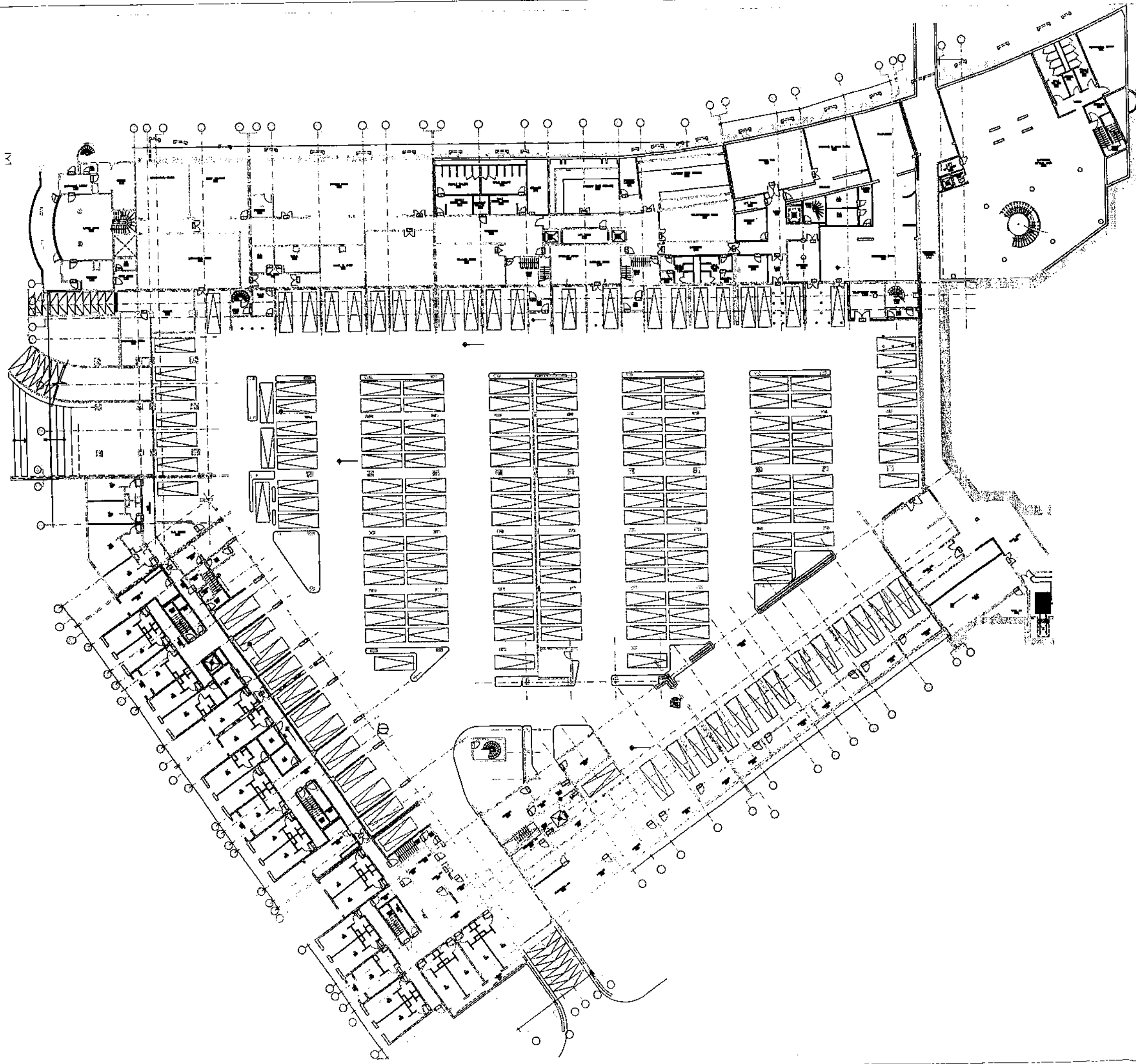
 96. STAIRS, WALKWAYS, AND OTHER AREAS - SEE PLAN

 97. STAIRS, WALKWAYS, AND OTHER AREAS - SEE PLAN

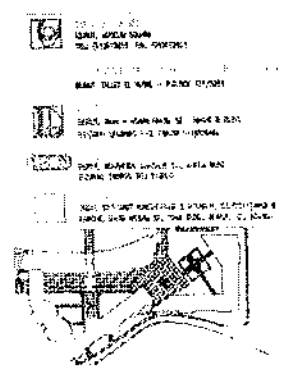
 98. STAIRS, WALKWAYS, AND OTHER AREAS - SEE PLAN

 99. STAIRS, WALKWAYS, AND OTHER AREAS - SEE PLAN

 100. STAIRS, WALKWAYS, AND OTHER AREAS - SEE PLAN



1M





LEGENDA

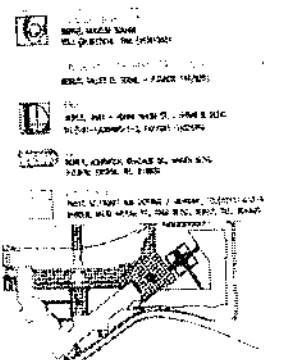
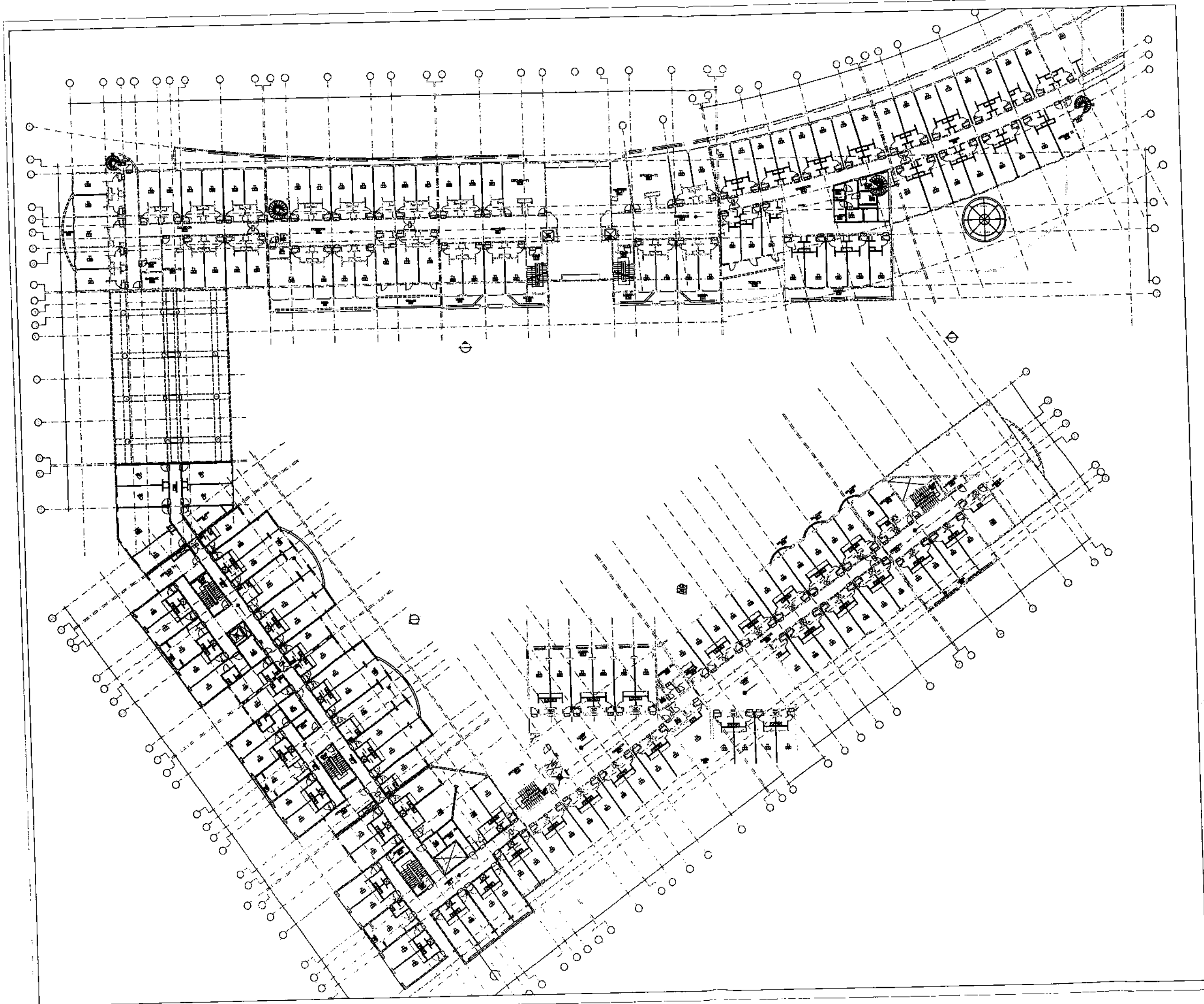
- BANGUNAN UTAMA
- BANGUNAN TAMBAHAN
- BANGUNAN YANG SUDAH DIBANGUN
- BANGUNAN YANG PERENCANAAN BELUM DITENTUKAN

1. BANGUNAN UTAMA

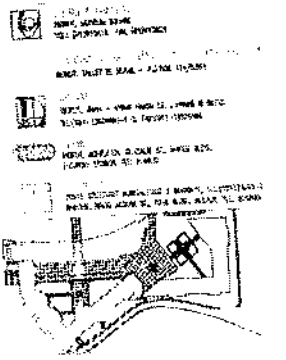
2. BANGUNAN TAMBAHAN

3. BANGUNAN YANG SUDAH DIBANGUN

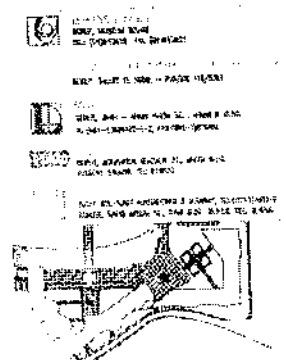
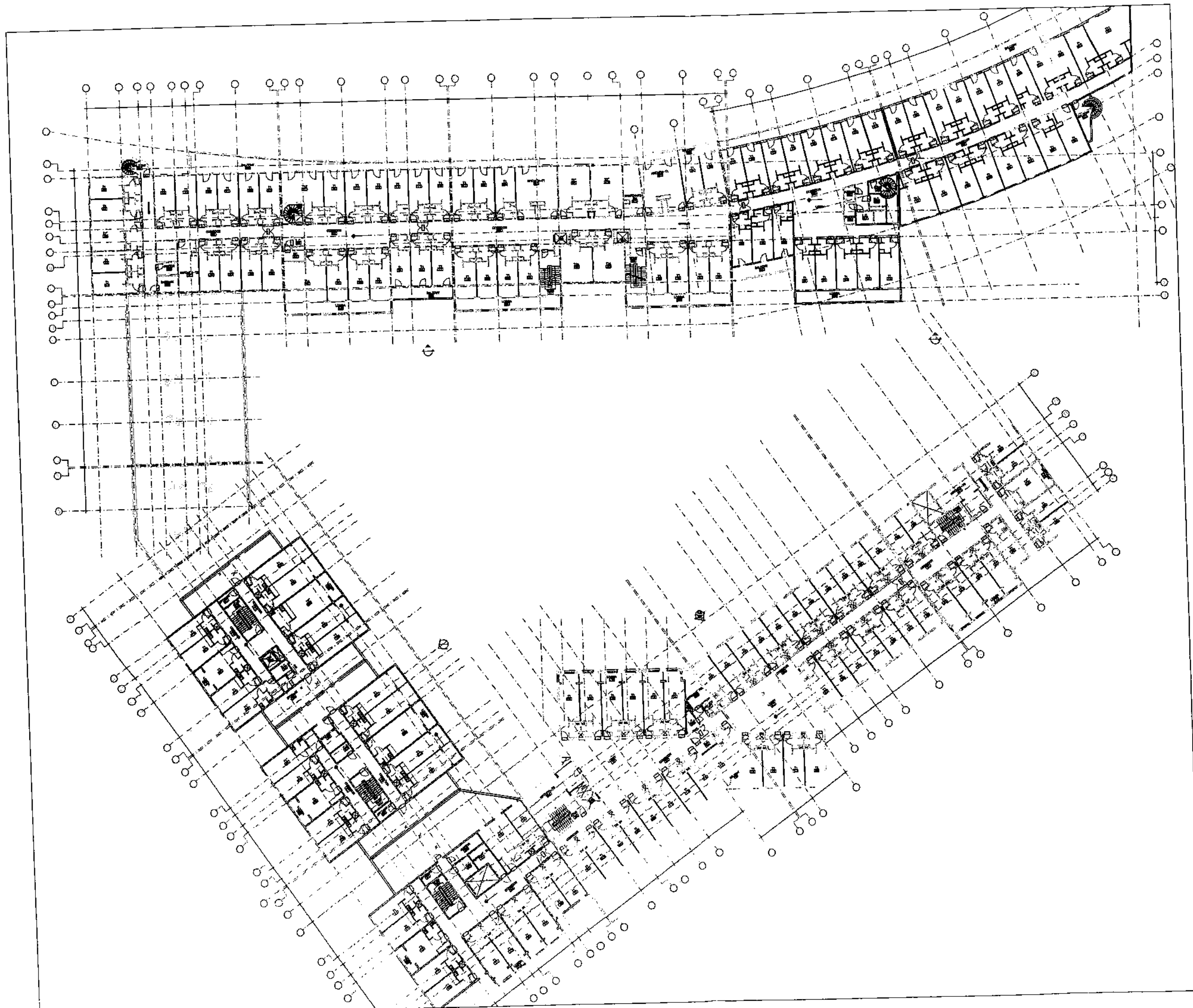
4. BANGUNAN YANG PERENCANAAN BELUM DITENTUKAN

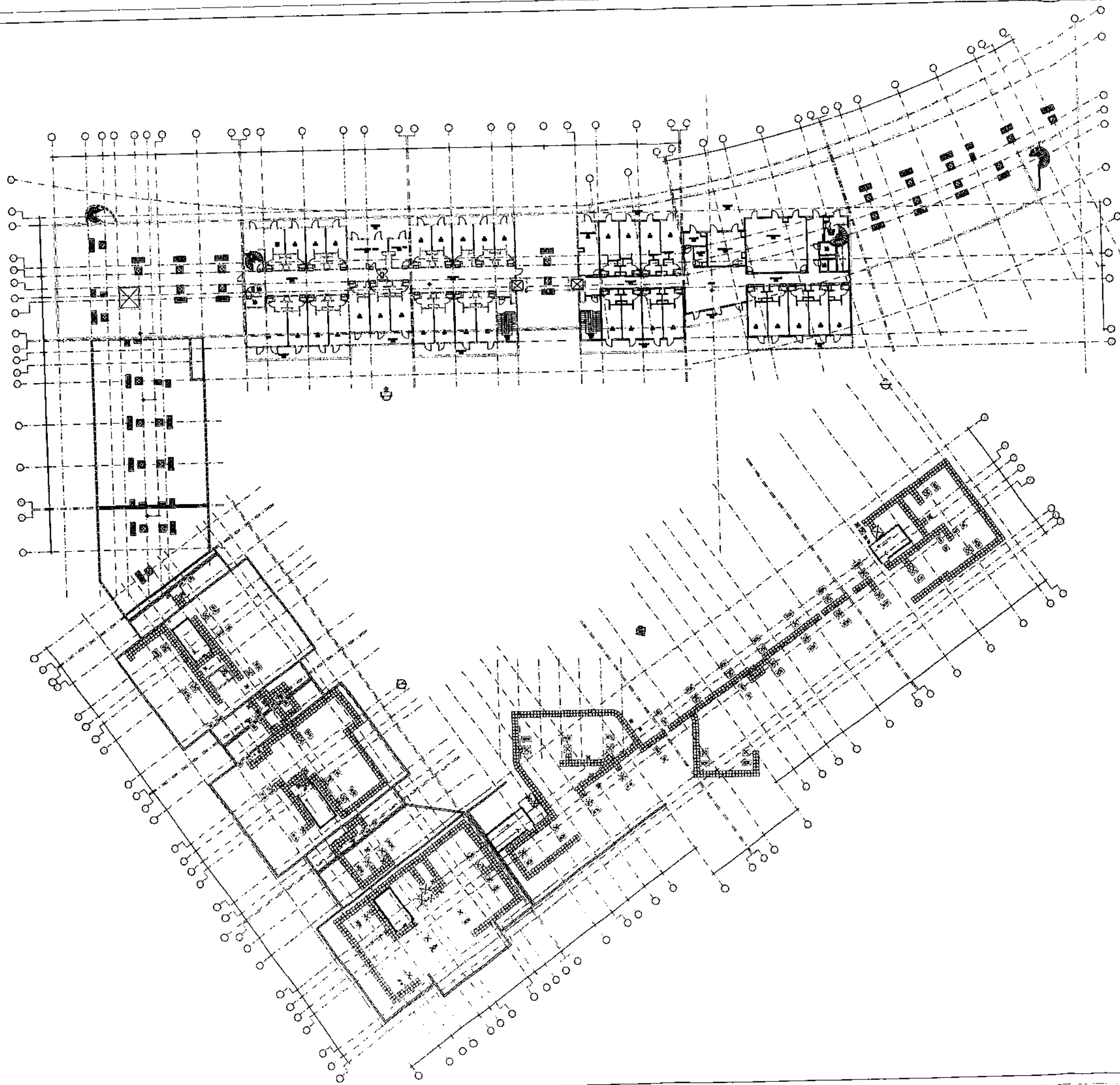


1. PUNTO DE ENCENDIDO DE LA LAMPARA
 2. PUNTO DE ENCENDIDO DE LA LAMPARA
 3. PUNTO DE ENCENDIDO DE LA LAMPARA
 4. PUNTO DE ENCENDIDO DE LA LAMPARA

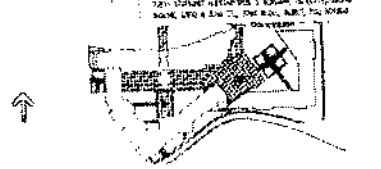


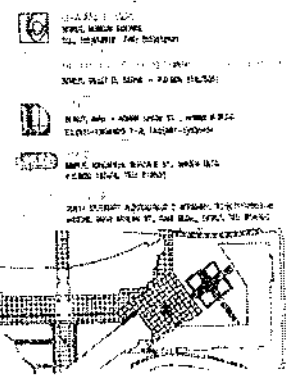
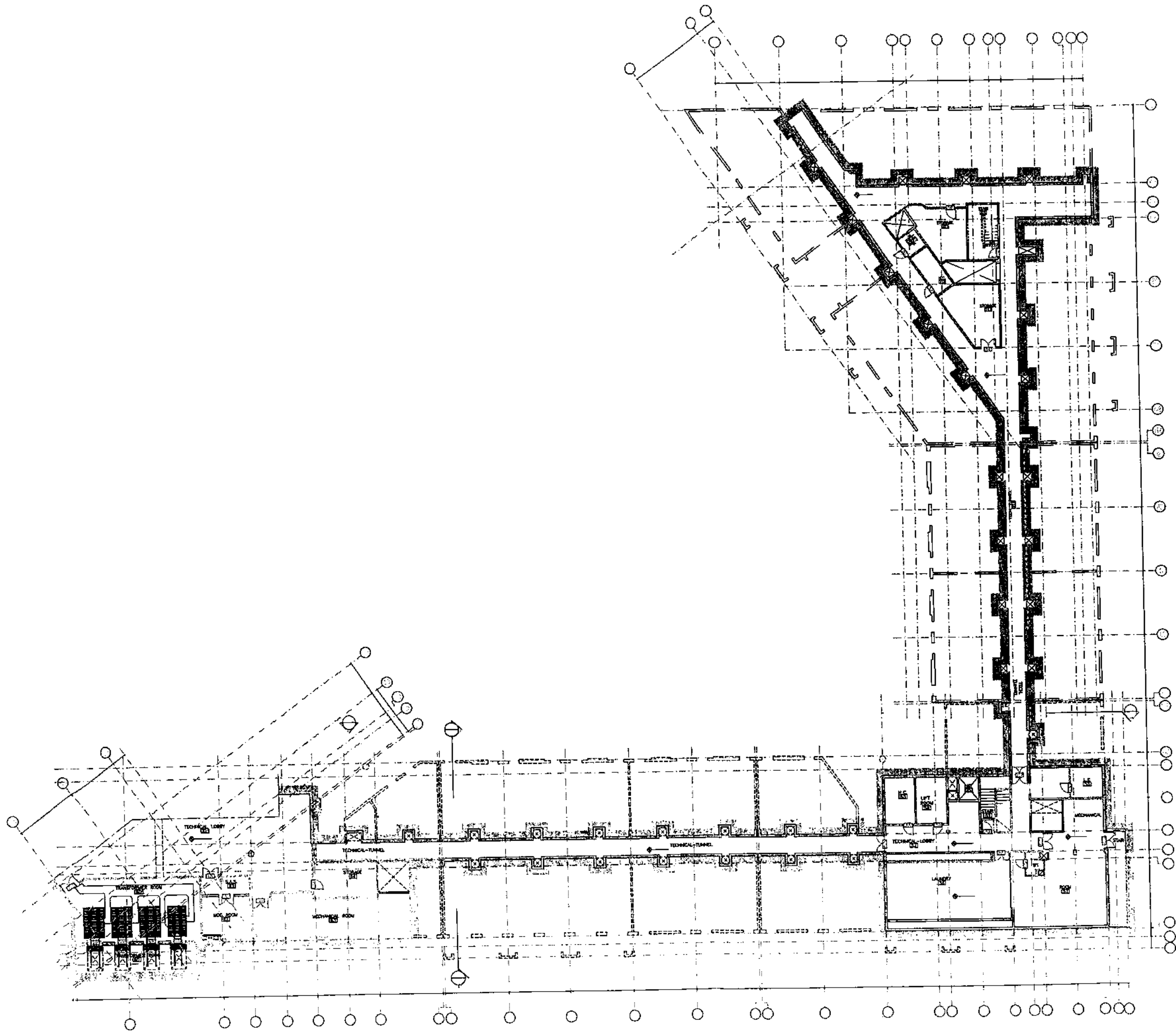
1. PUNTO DE REFERENCIA
 2. MUR DE CONCRETO
 3. MUR DE ALBAÑILERIA
 4. MUR DE MADERA

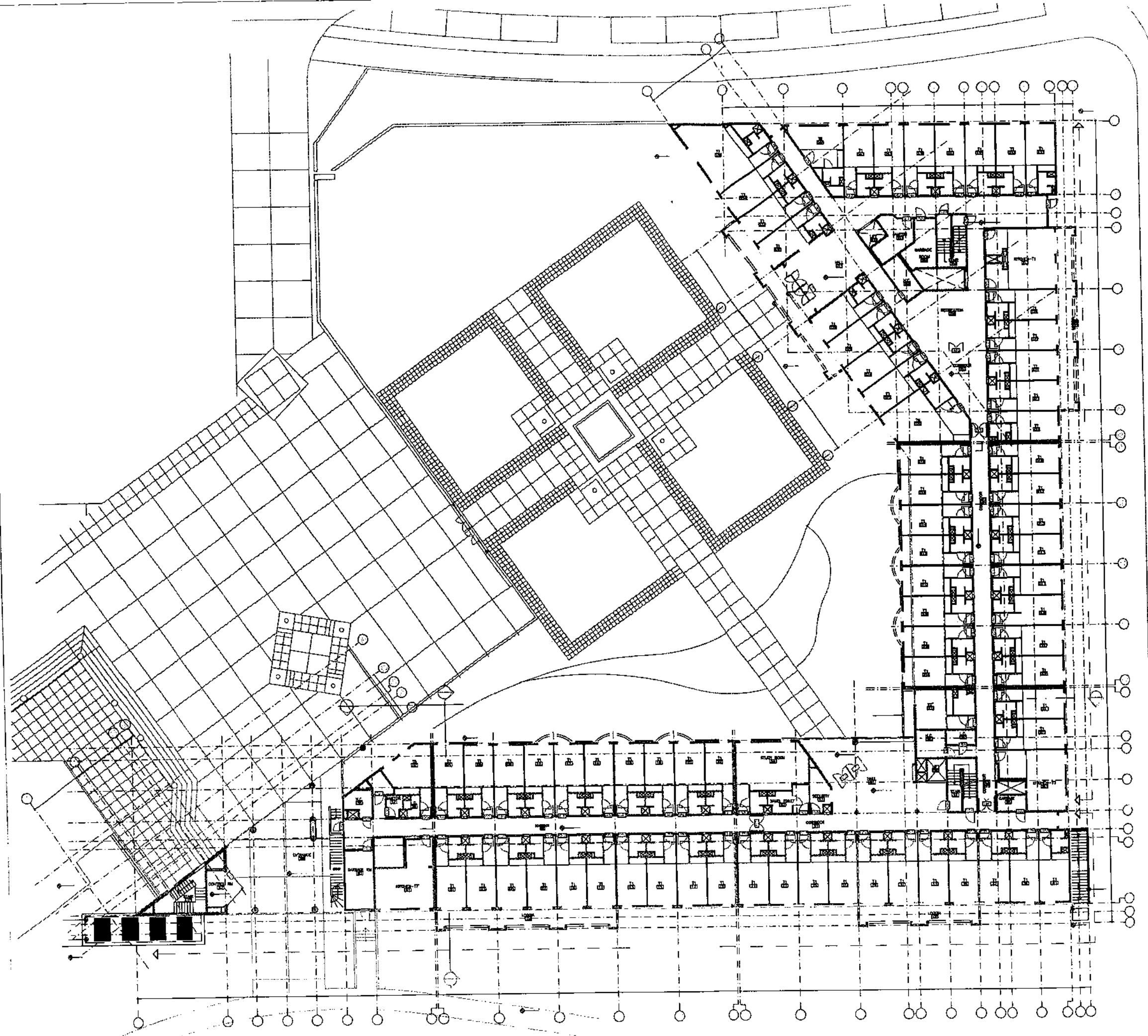






- 1. ПОЛЫ - ПОЛИЭТАЛЕНА
ПОД ПАРКЕТНЫМ ПОКРЫТИЕМ
2. ПОЛЫ - ПОЛИЭТАЛЕНА
ПОД ПАРКЕТНЫМ ПОКРЫТИЕМ
3. ПОЛЫ - ПОЛИЭТАЛЕНА
ПОД ПАРКЕТНЫМ ПОКРЫТИЕМ




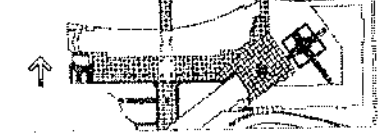


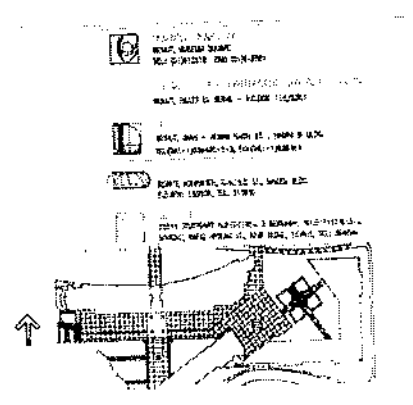
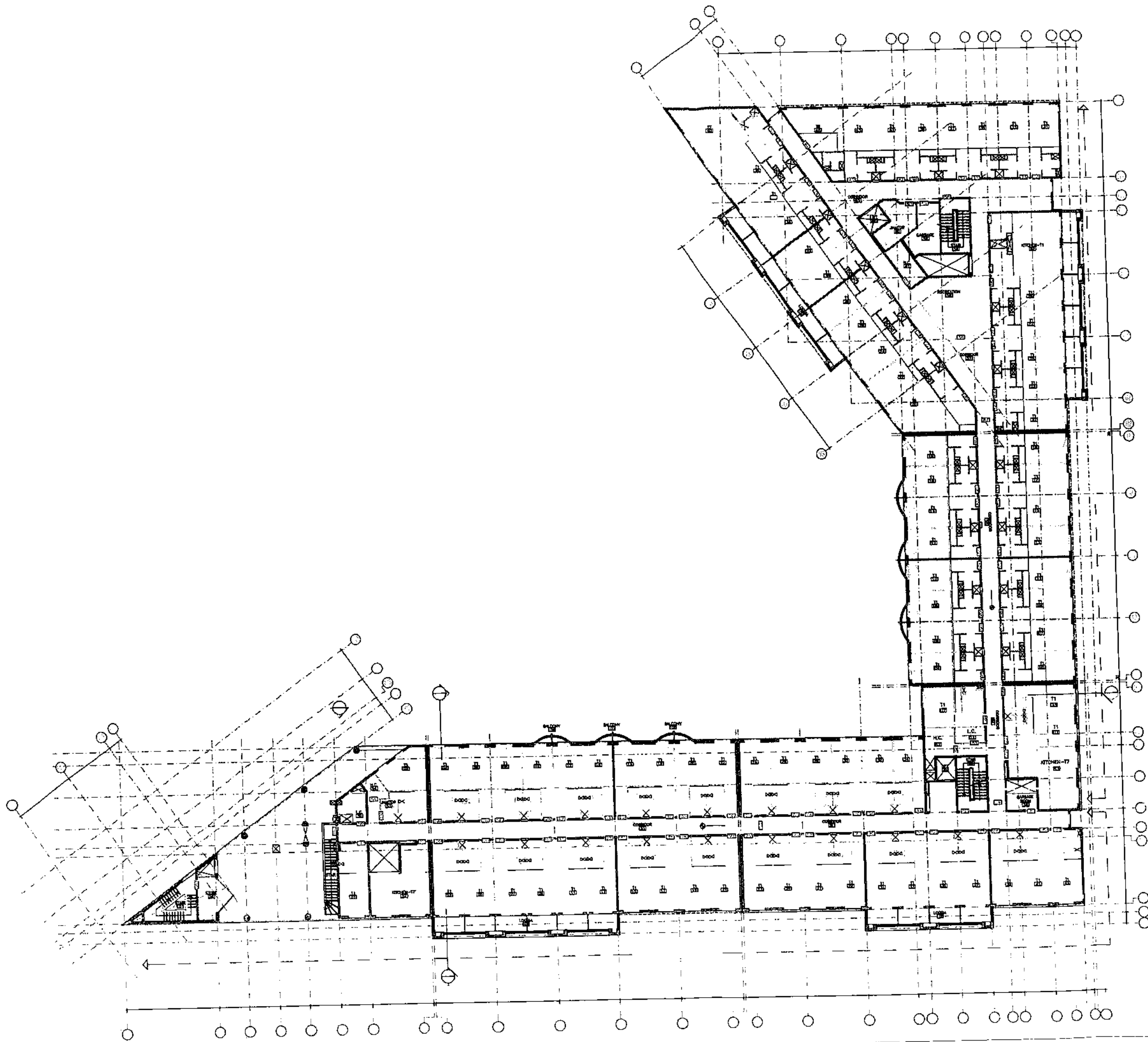


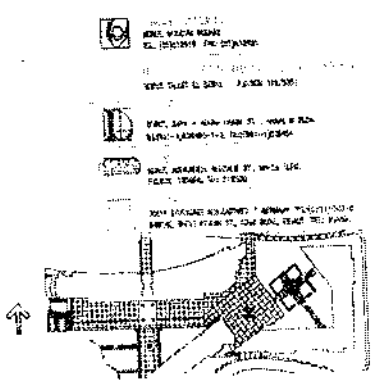
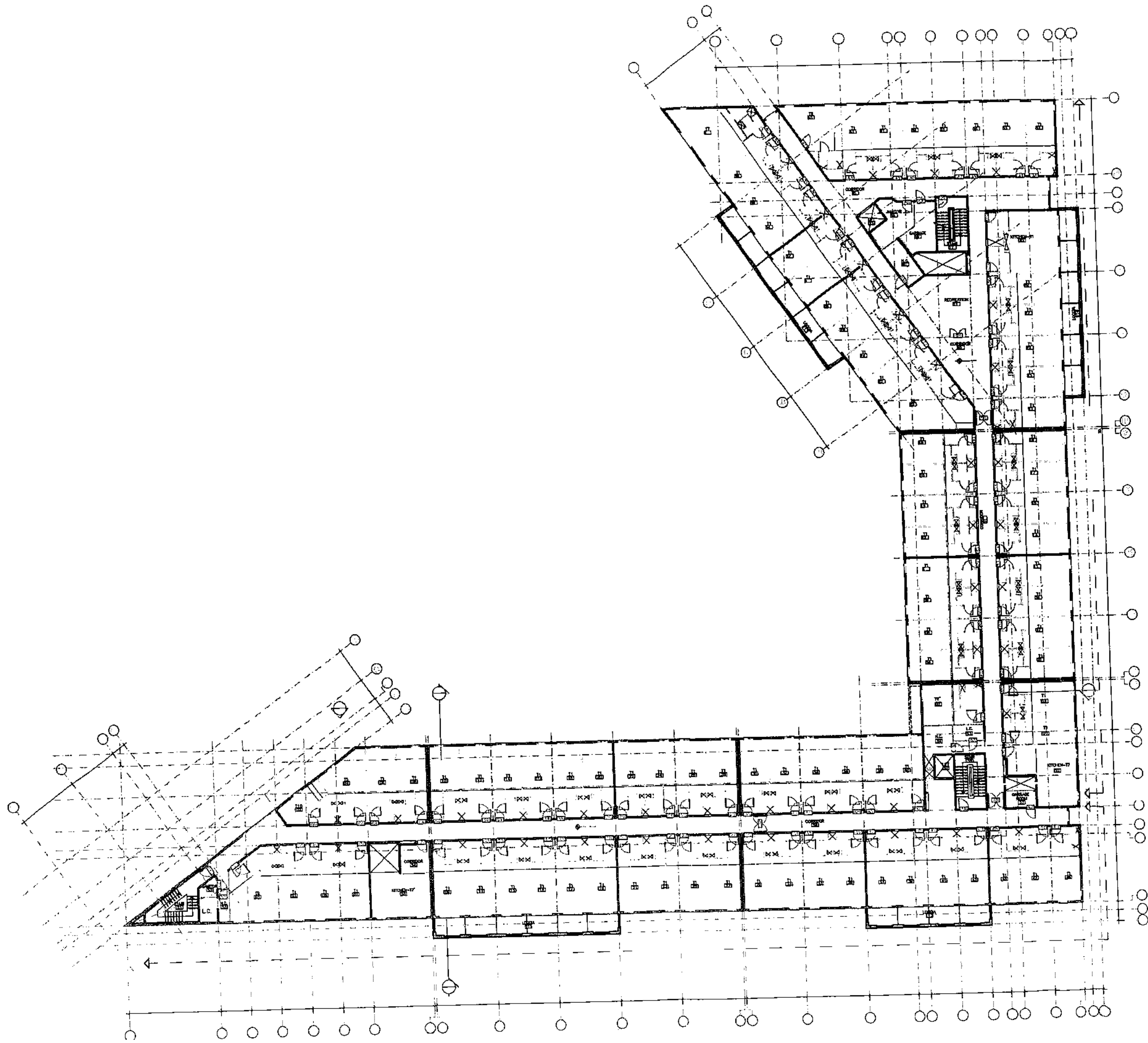

 GRID LINE
 THE DIMENSIONS OF THE BUILDING
 SHALL BE AS SHOWN ON THIS PLAN
 UNLESS OTHERWISE SPECIFIED

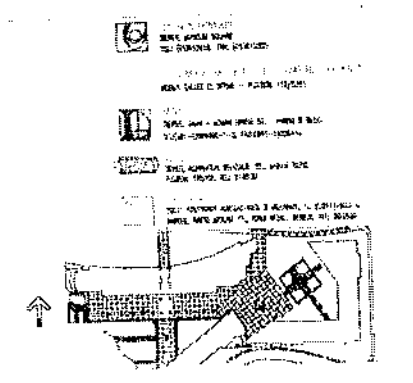
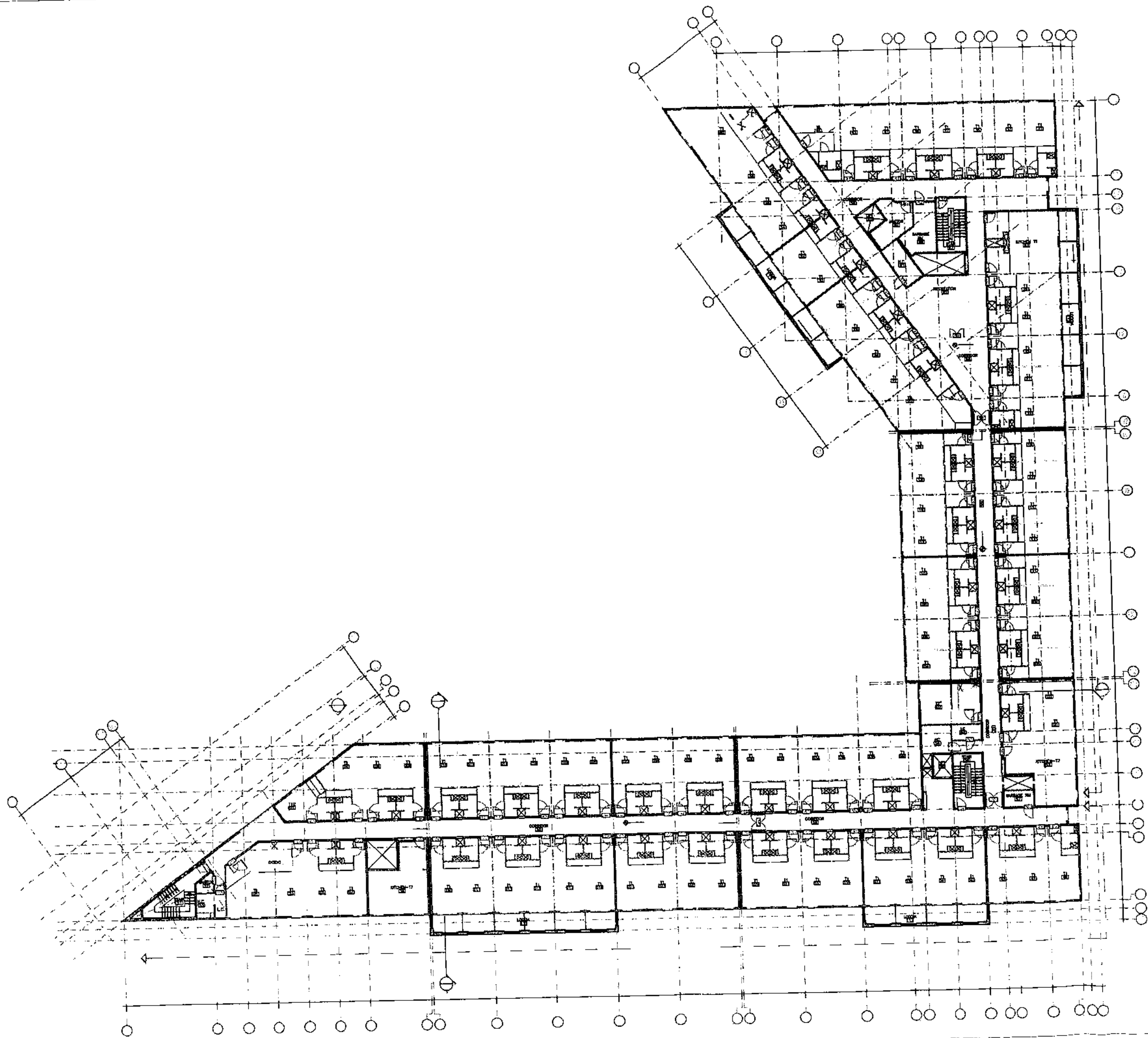

 STRUCTURAL COLUMN
 THE DIMENSIONS OF THE BUILDING
 SHALL BE AS SHOWN ON THIS PLAN
 UNLESS OTHERWISE SPECIFIED

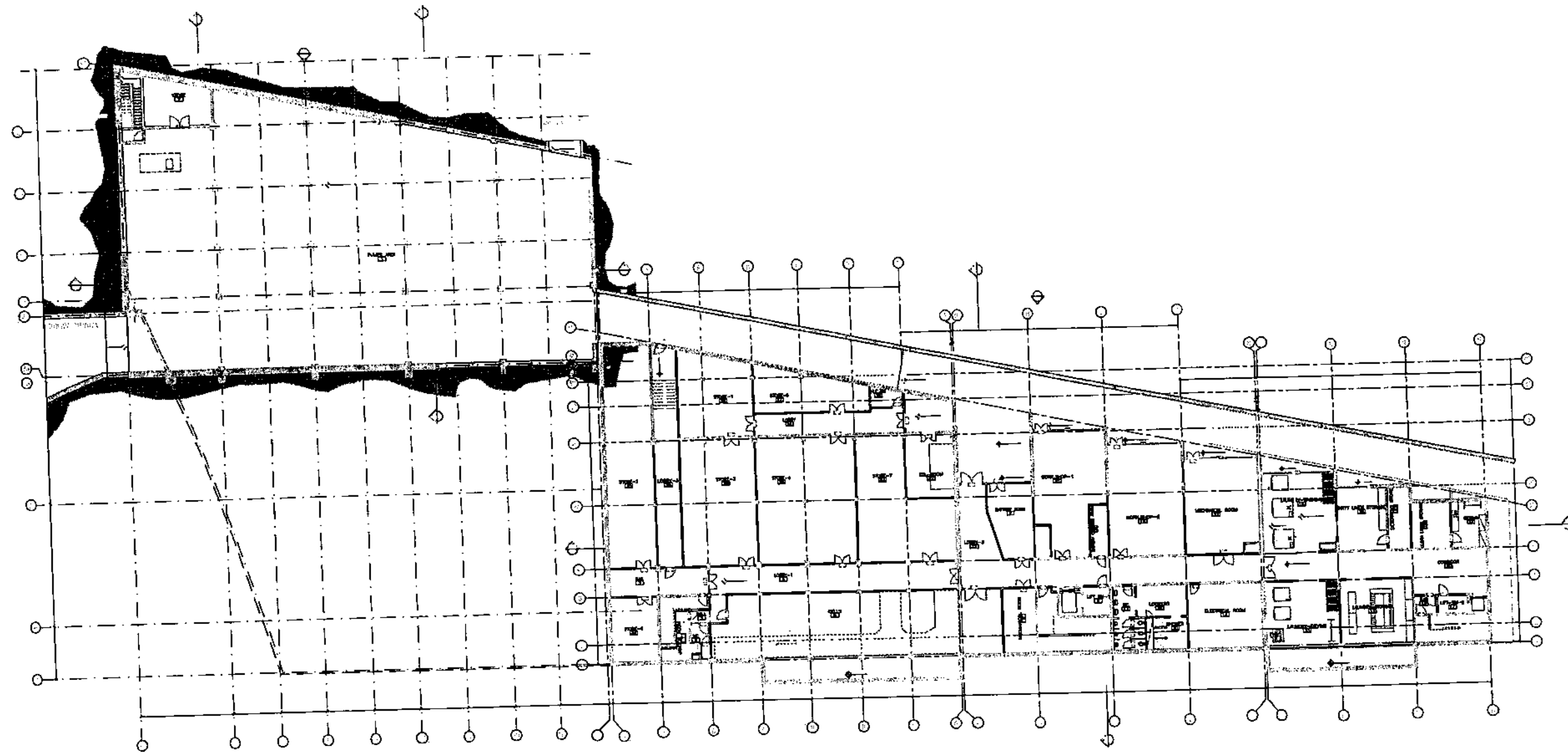

 STRUCTURAL WALL
 THE DIMENSIONS OF THE BUILDING
 SHALL BE AS SHOWN ON THIS PLAN
 UNLESS OTHERWISE SPECIFIED

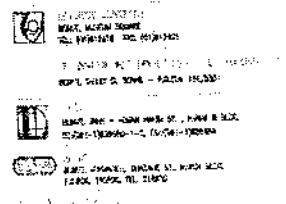












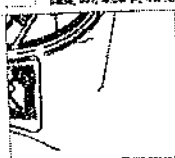
LEGENDA

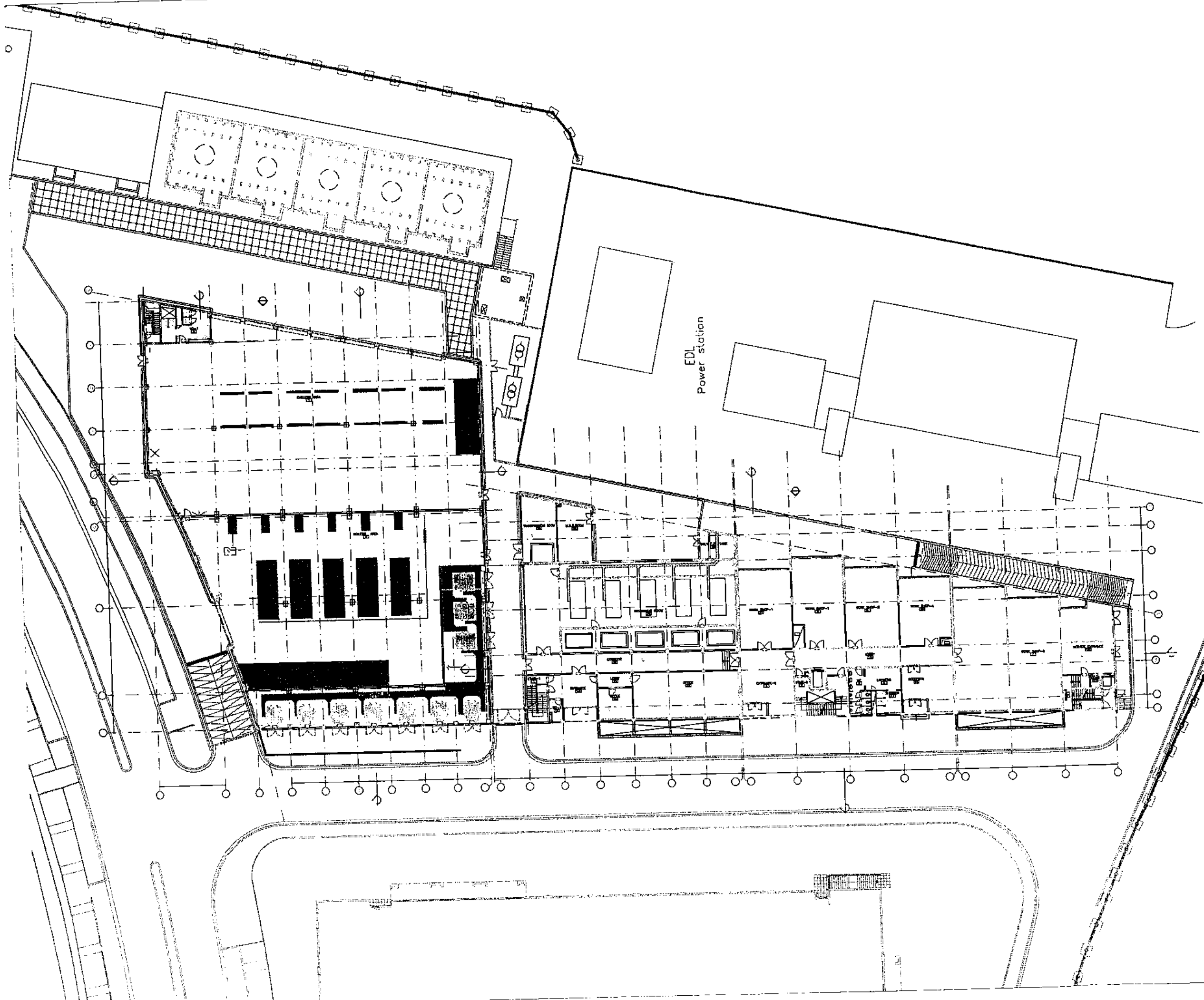
 1. ZNAČENJE SIMBOLA...

 2. ZNAČENJE...

 3. ZNAČENJE...

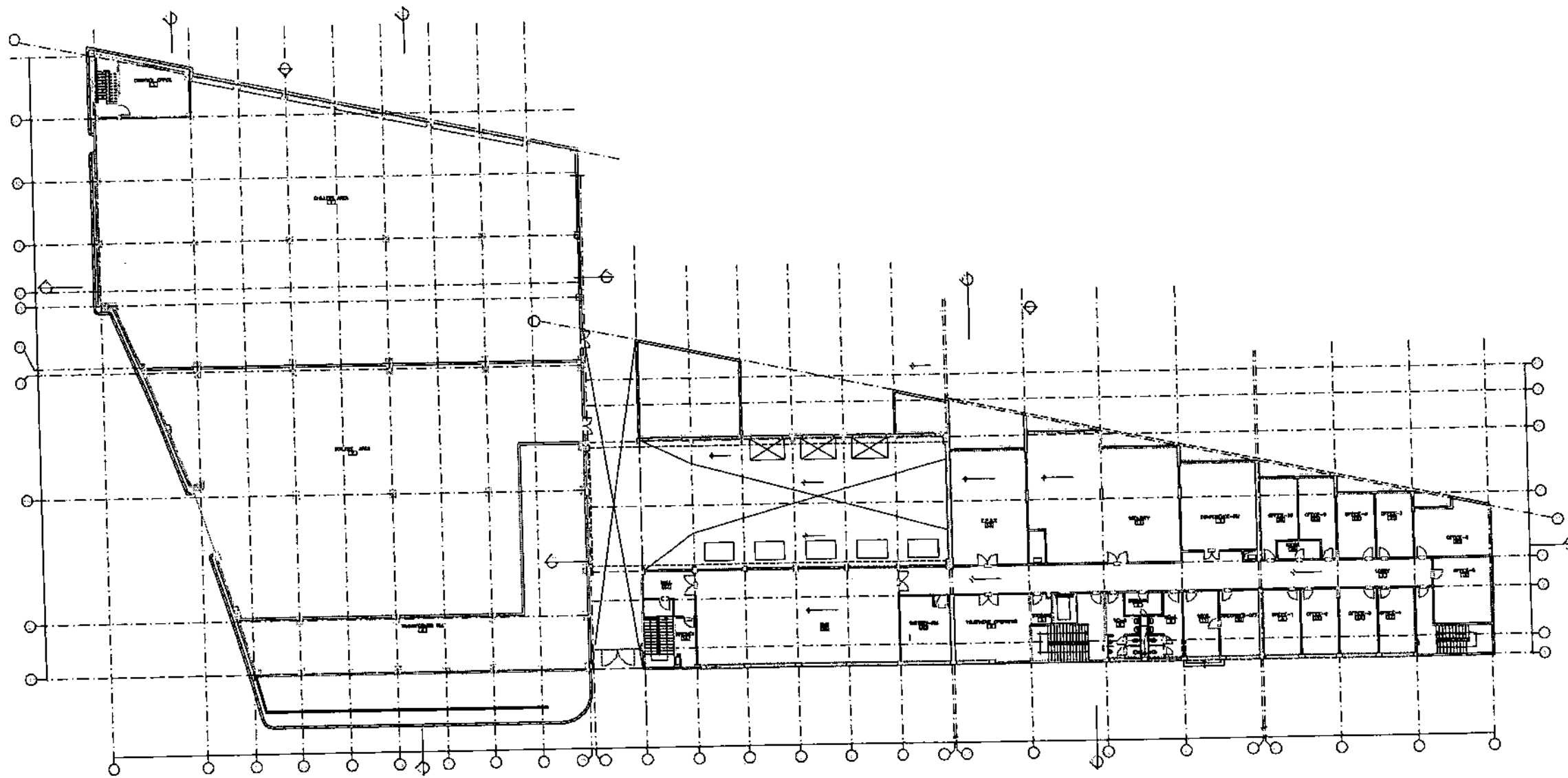
 4. ZNAČENJE...





EDL
Power station

- 1. 100% COMPLETE
- 2. 90% COMPLETE
- 3. 80% COMPLETE
- 4. 70% COMPLETE
- 5. 60% COMPLETE
- 6. 50% COMPLETE
- 7. 40% COMPLETE
- 8. 30% COMPLETE
- 9. 20% COMPLETE
- 10. 10% COMPLETE
- 11. 0% COMPLETE

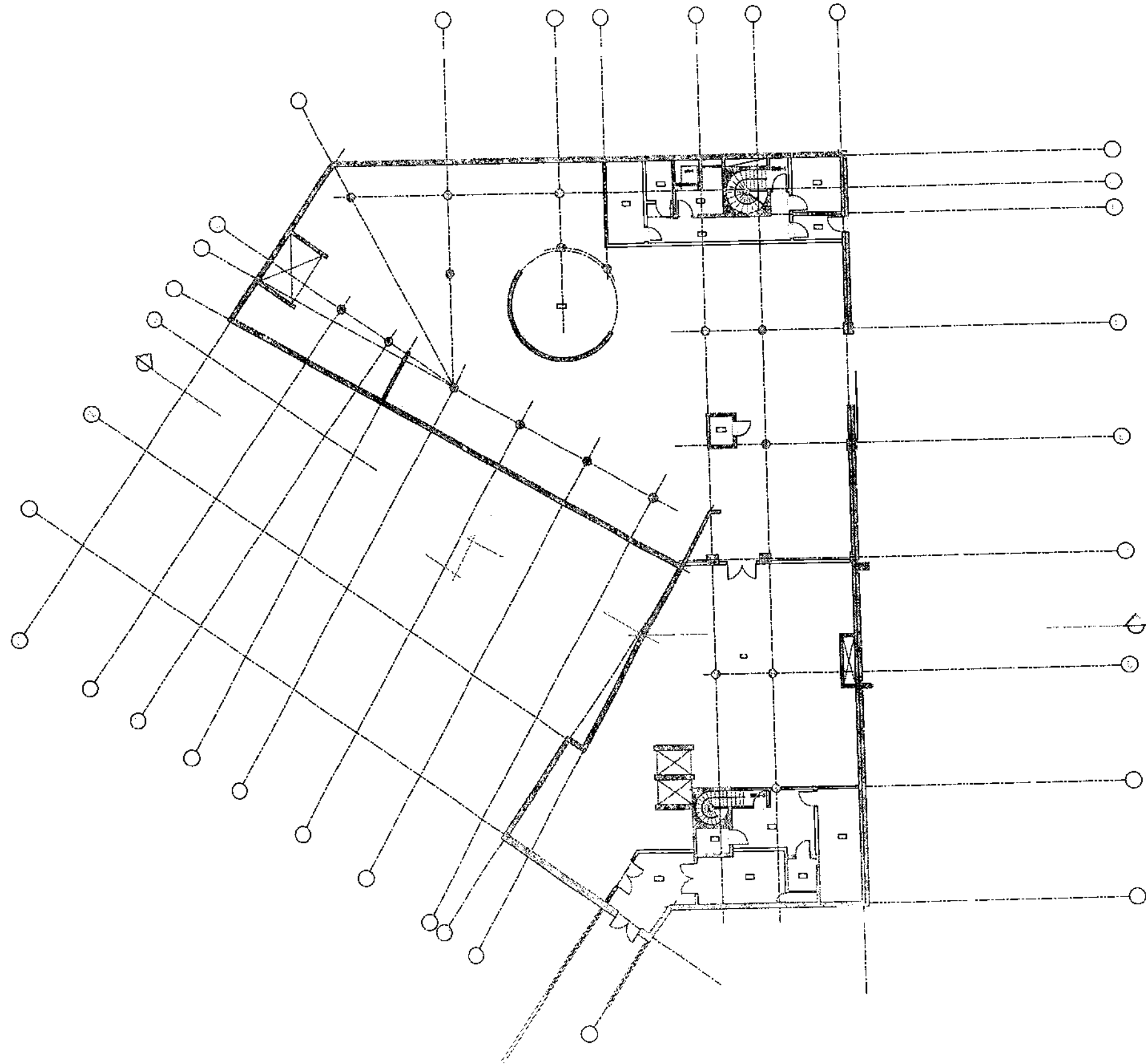


1. 100% (100%)
 2. 100% (100%)
 3. 100% (100%)
 4. 100% (100%)

1. 100% (100%)
 2. 100% (100%)
 3. 100% (100%)
 4. 100% (100%)

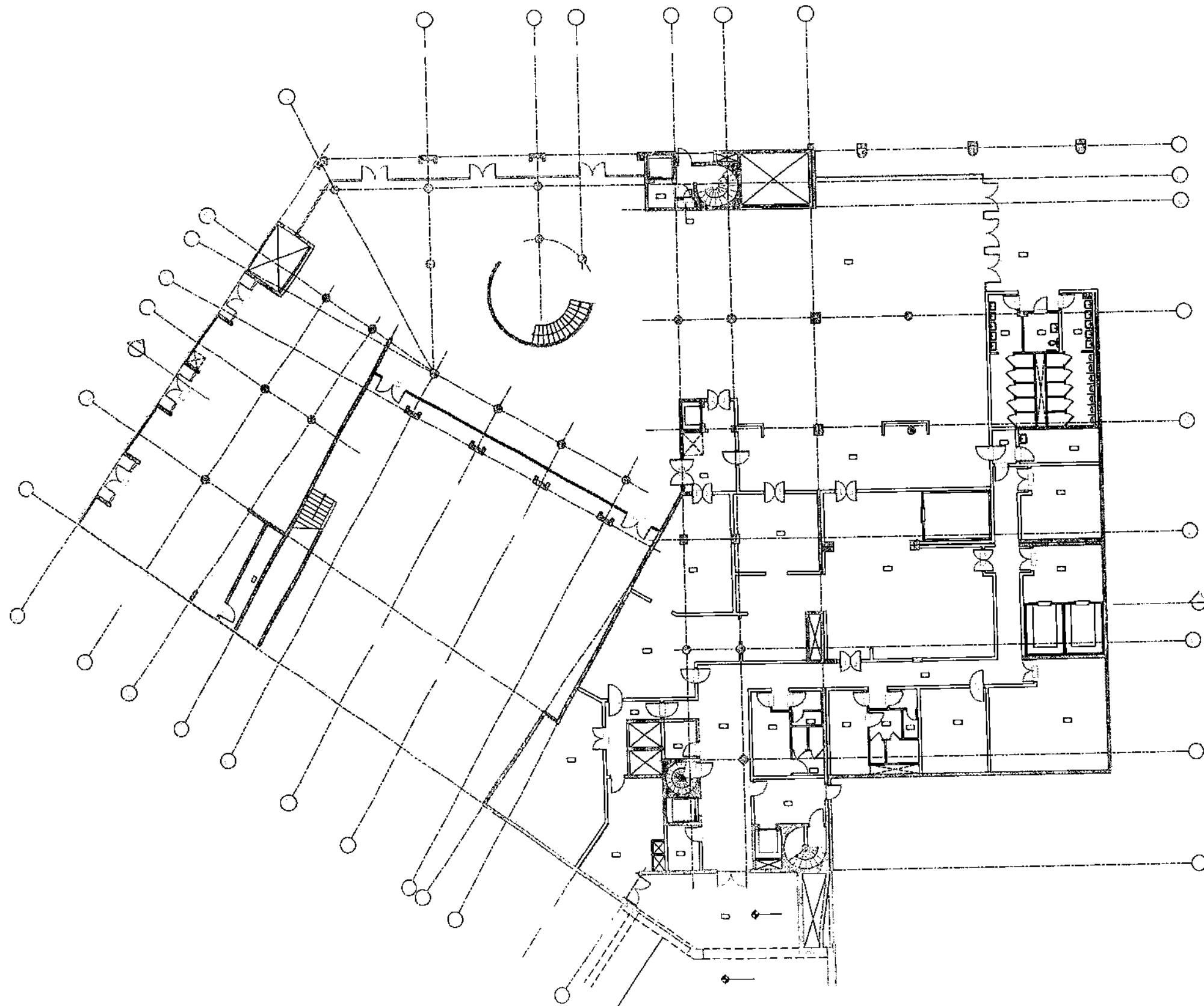
1. 100% (100%)
 2. 100% (100%)
 3. 100% (100%)
 4. 100% (100%)

1. 100% (100%)
 2. 100% (100%)
 3. 100% (100%)
 4. 100% (100%)






REVISION	DATE	BY	REMARKS

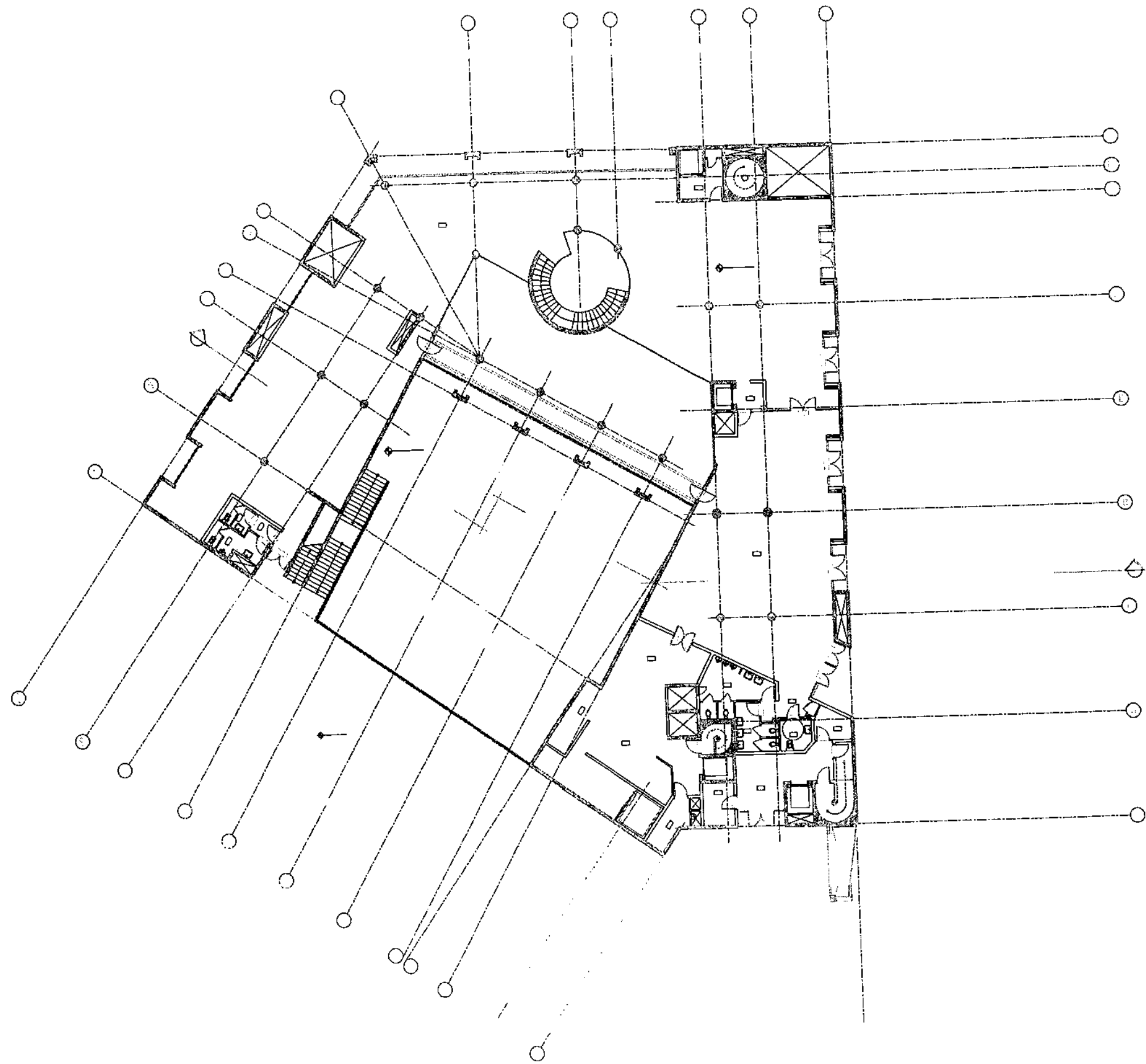
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. FINISH FLOOR LEVEL IS INDICATED BY 'FL'.
 3. FINISH CEILING LEVEL IS INDICATED BY 'CL'.
 4. FINISH GROUND LEVEL IS INDICATED BY 'GL'.
 5. FINISH ROOF LEVEL IS INDICATED BY 'RL'.
 6. FINISH SLOPE IS INDICATED BY 'S'.
 7. FINISH CURVE IS INDICATED BY 'C'.
 8. FINISH RADIUS IS INDICATED BY 'R'.
 9. FINISH CHORD IS INDICATED BY 'CH'.
 10. FINISH AREA IS INDICATED BY 'A'.
 11. FINISH PERIMETER IS INDICATED BY 'P'.
 12. FINISH VOLUME IS INDICATED BY 'V'.
 13. FINISH WEIGHT IS INDICATED BY 'W'.
 14. FINISH DENSITY IS INDICATED BY 'D'.
 15. FINISH MODULUS OF ELASTICITY IS INDICATED BY 'E'.
 16. FINISH POISSON'S RATIO IS INDICATED BY 'NU'.
 17. FINISH THERMAL EXPANSION COEFFICIENT IS INDICATED BY 'ALPHA'.
 18. FINISH COEFFICIENT OF FRICTION IS INDICATED BY 'MU'.
 19. FINISH COEFFICIENT OF RESTITUTION IS INDICATED BY 'E'.
 20. FINISH COEFFICIENT OF ADHESION IS INDICATED BY 'TAU'.



REVISION	DATE	DETAILS

- 
 DOOR (SWING) TO BE INDICATED BY AN ARROW
 (SEE NOTE 1)
- 
 WINDOW (TYPE AND SIZE TO BE INDICATED)
 (SEE NOTE 2)
- 
 STAIRS (TYPE AND SIZE TO BE INDICATED)
 (SEE NOTE 3)

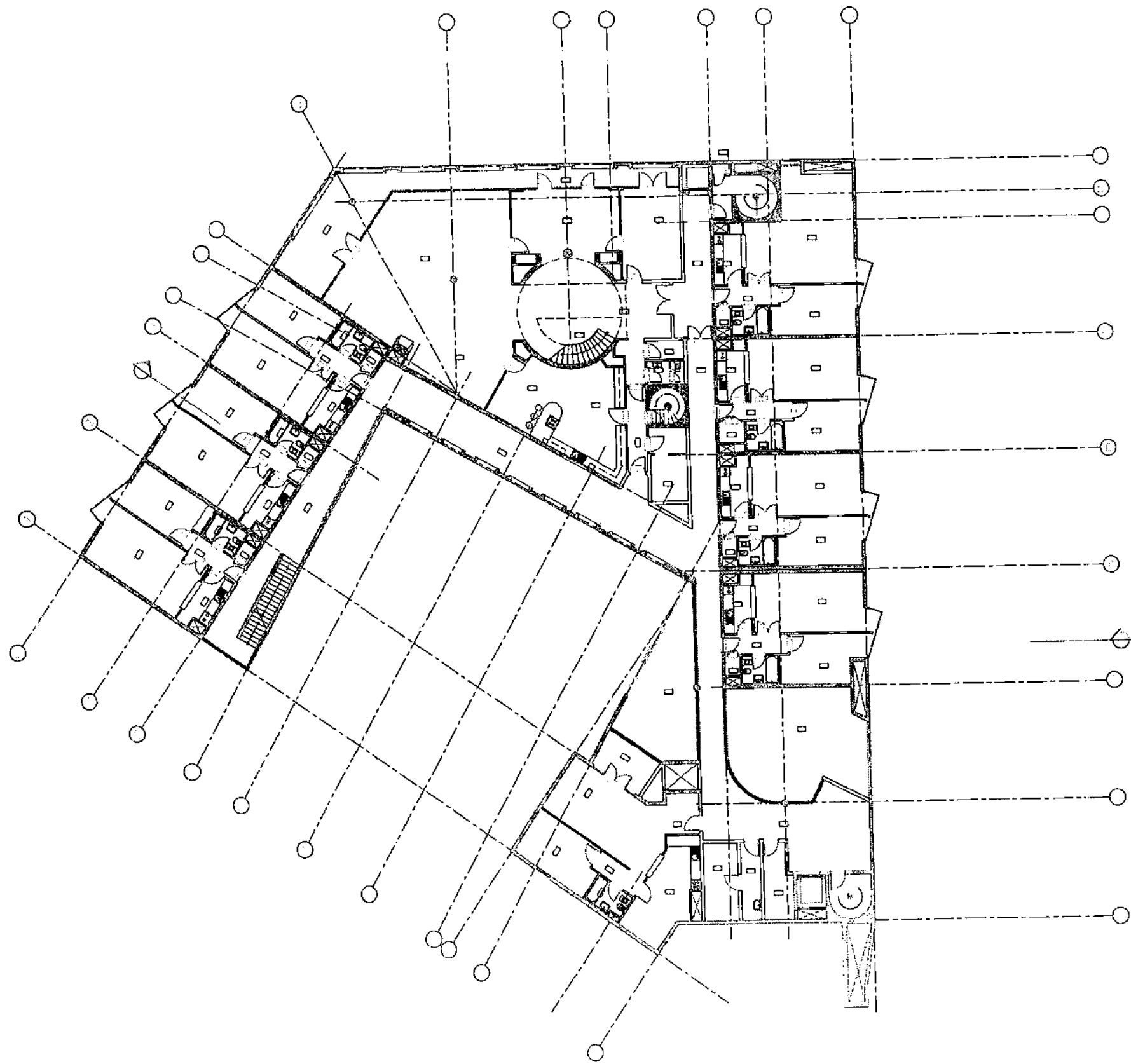









REVISION	DATE	REMARKS

- CONCRETE WALL
- BRICK WALL
- WINDOW
- DOOR

→

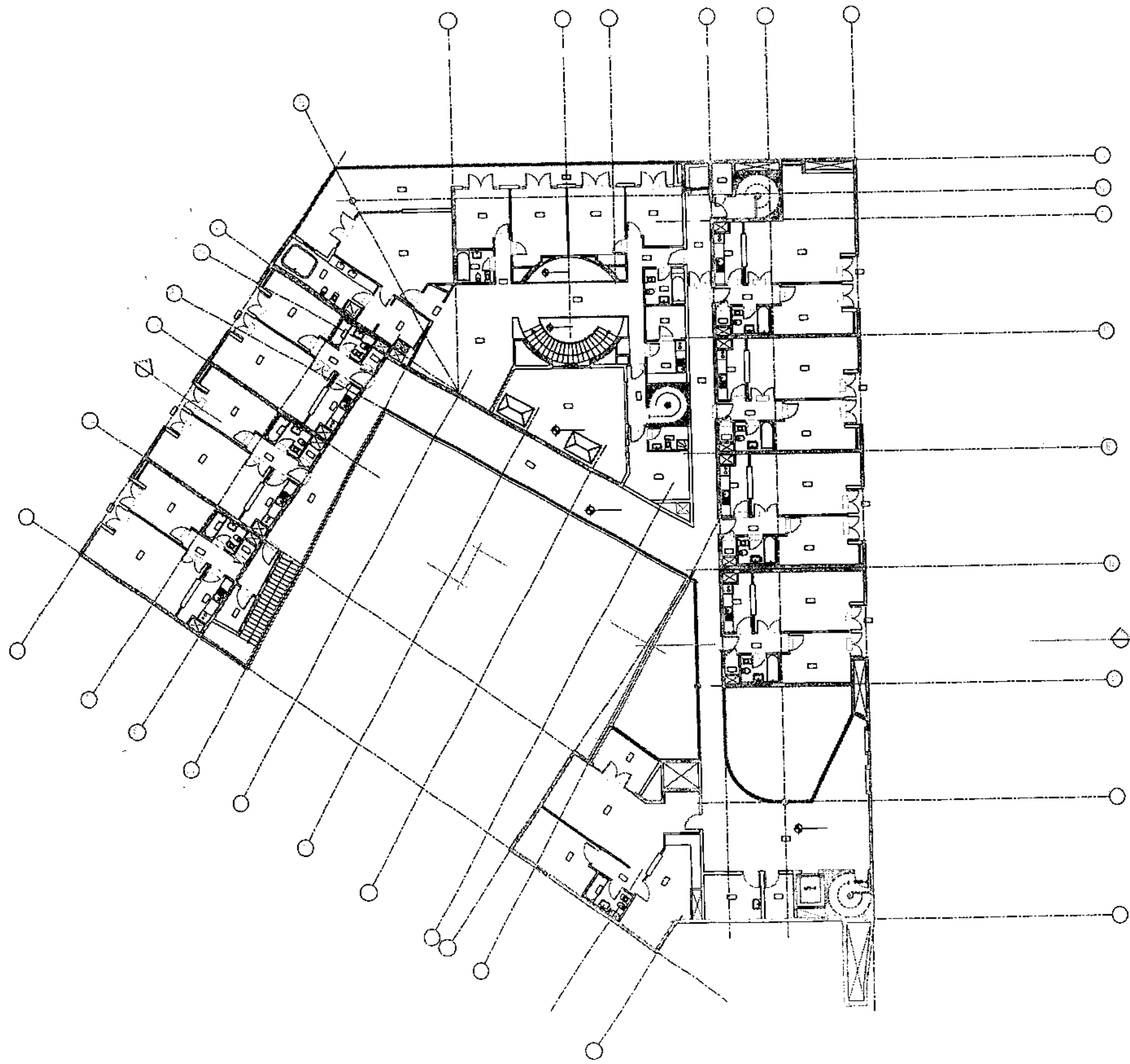


FLOOR	DATE	PROJECT






-  WALL WITH DOOR
-  WALL WITH WINDOW
-  WALL WITH DOOR AND WINDOW
-  WALL WITH DOOR AND WINDOW
-  WALL WITH DOOR AND WINDOW

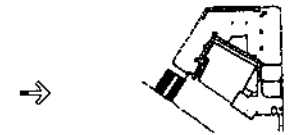


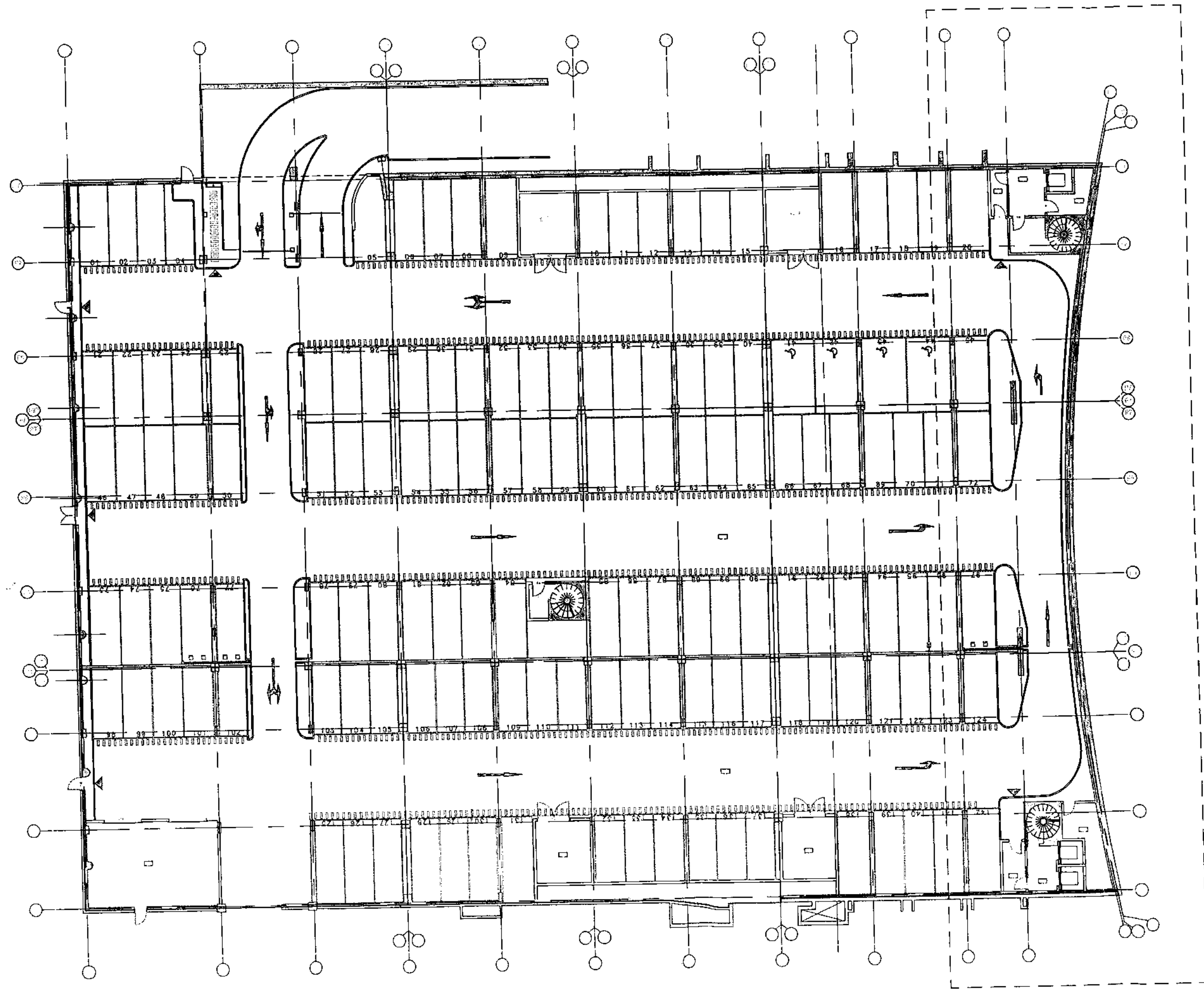
Scale: 1:50
 Date: 1954
 Project: [Illegible]




REVISION	DATE	BY	PROJECT




- 
 WALL AND WINDOW
 TO SYSTEM THE (STANDARD)
- 
 DOOR (SILENT, BALANCE, FLOOR, STAIR)
- 
 STAIR (UP, DOWN, WINDING, STAIR, ELEVATOR)
- 
 FLOOR (CARPET, POLISHED, MARBLE, GRANITE, WOOD, TILE, STONE)
- 
 CEILING (ACoustic, PLASTER, CONCRETE, METAL, WOOD)




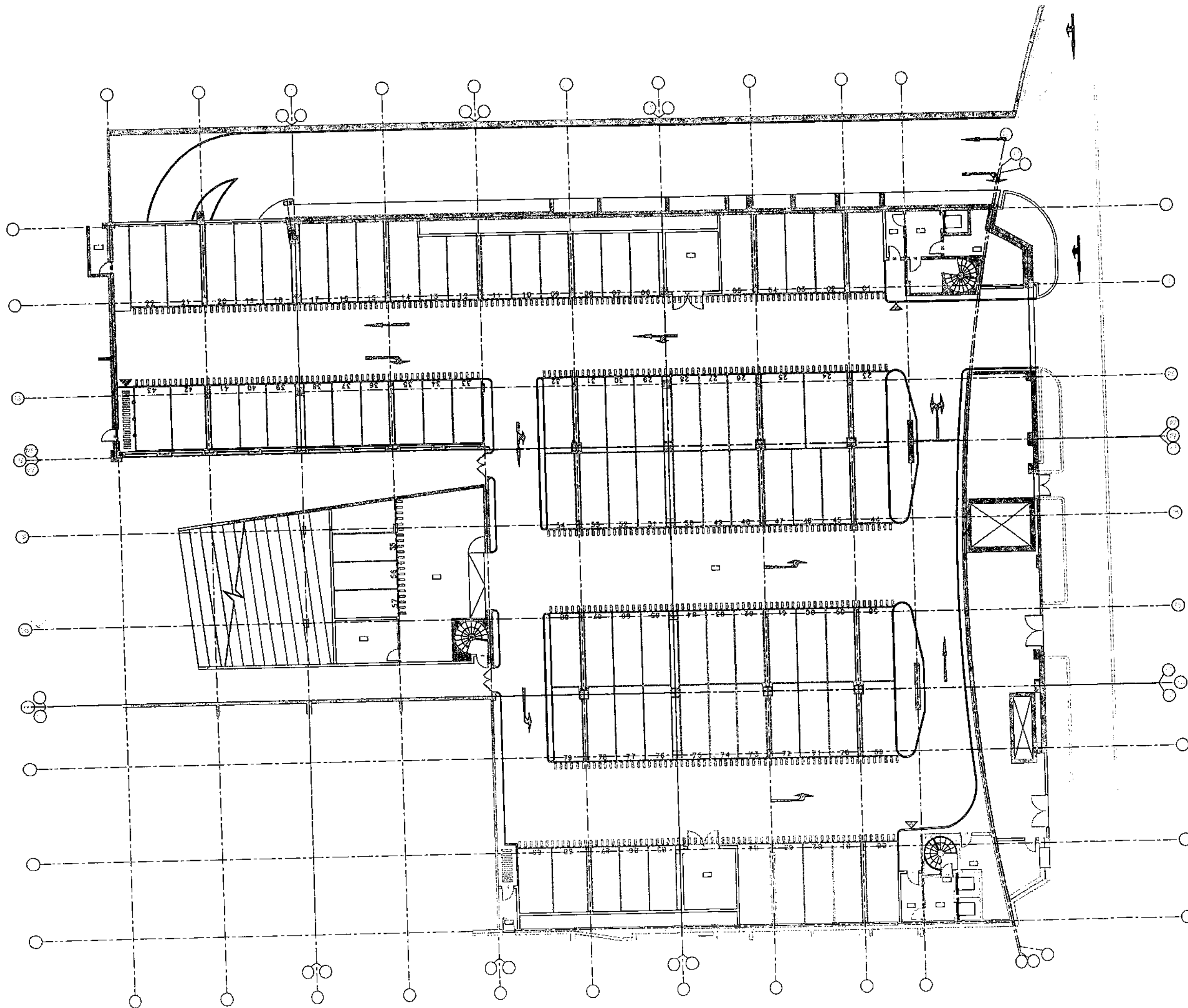


REVISION	DATE	REMARKS



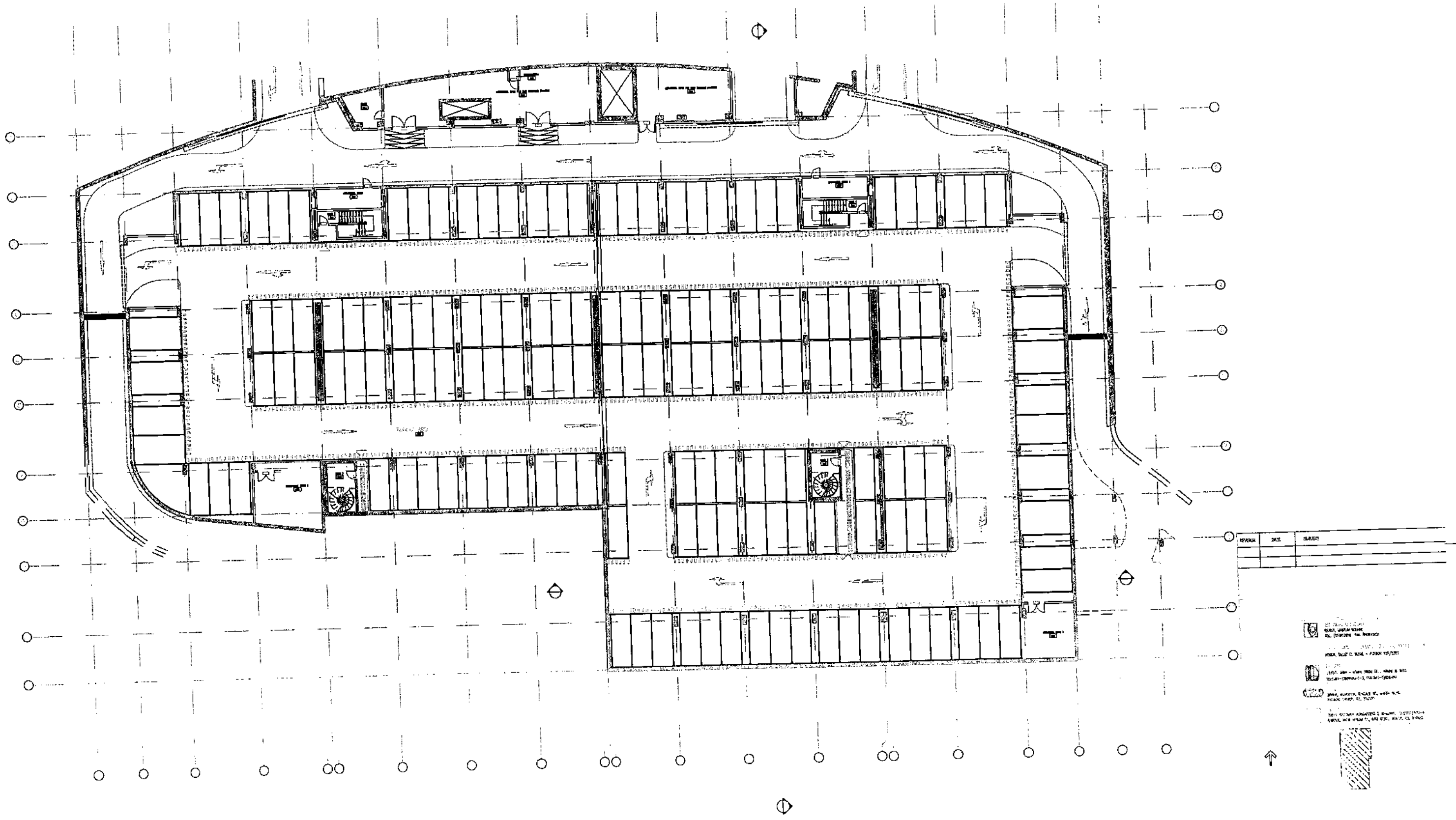
-  1. 1:100
-  2. 1:100
-  3. 1:100





REVIZIJA	DATA	OPIS

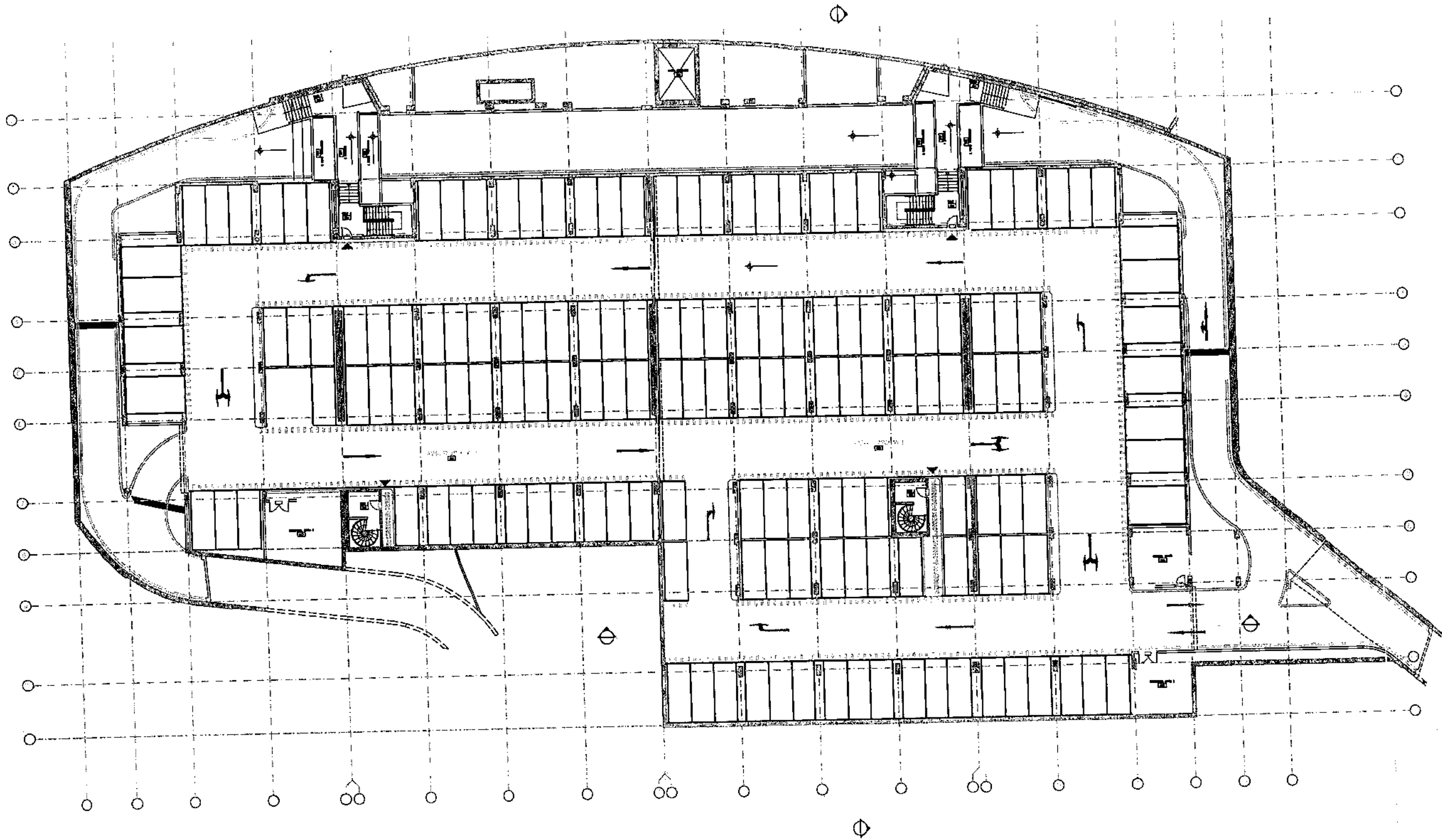
1. POKAZIVANJE MESTANOSTI IZ OBLASTI...
 2. POKAZIVANJE MESTANOSTI IZ OBLASTI...
 3. POKAZIVANJE MESTANOSTI IZ OBLASTI...
 4. POKAZIVANJE MESTANOSTI IZ OBLASTI...



WORK	DATE	SCALE

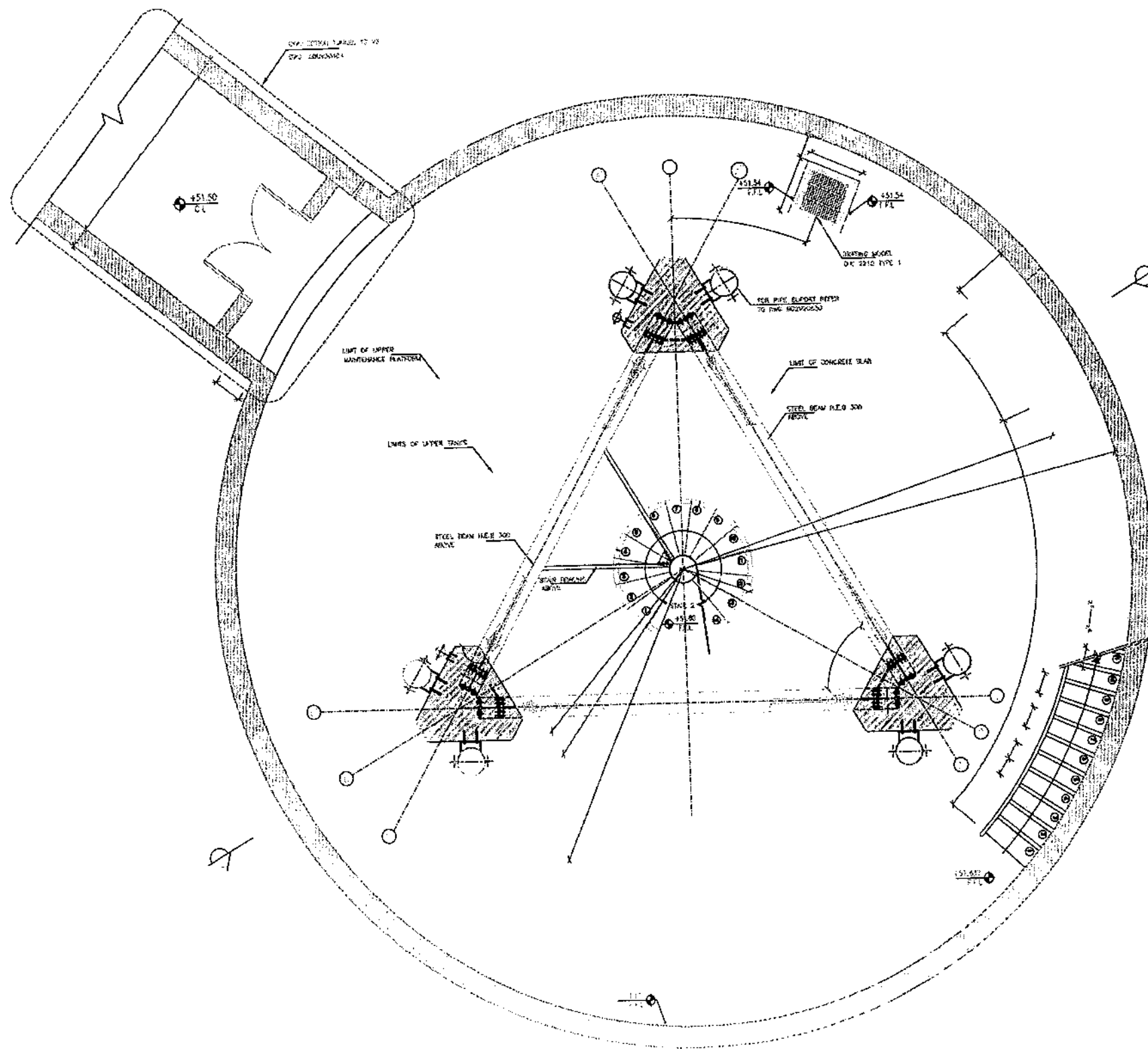
1. ПОДЪЕМНИК
2. ЛЕСТНИЦА
3. ЛЕСТНИЦА
4. ЛЕСТНИЦА
5. ЛЕСТНИЦА
6. ЛЕСТНИЦА
7. ЛЕСТНИЦА
8. ЛЕСТНИЦА
9. ЛЕСТНИЦА
10. ЛЕСТНИЦА
11. ЛЕСТНИЦА
12. ЛЕСТНИЦА





1. STAIRCASE
 2. STAIRCASE
 3. STAIRCASE
 4. STAIRCASE
 5. STAIRCASE
 6. STAIRCASE
 7. STAIRCASE
 8. STAIRCASE
 9. STAIRCASE
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 24. STAIRCASE
 25. STAIRCASE
 26. STAIRCASE
 27. STAIRCASE
 28. STAIRCASE
 29. STAIRCASE
 30. STAIRCASE





- (1) ...
(2) ...
(3) ...
(4) ...
(5) ...



CONNECTION TO WALL

CONNECTION TO WALL

EDGE PIPE 80x52

LAND OF UPPER TANKS

71mm DIAGONAL BRACING

STAIR BRACING

EDGE OF CONCRETE SLAB

STEEL BEAM H.E.B. 300

H.E.B. 300

H.E.B. 300

STEEL BEAM H.E.B. 300

71mm DIAGONAL BRACING

METAL STAIR

H.E.B. 300

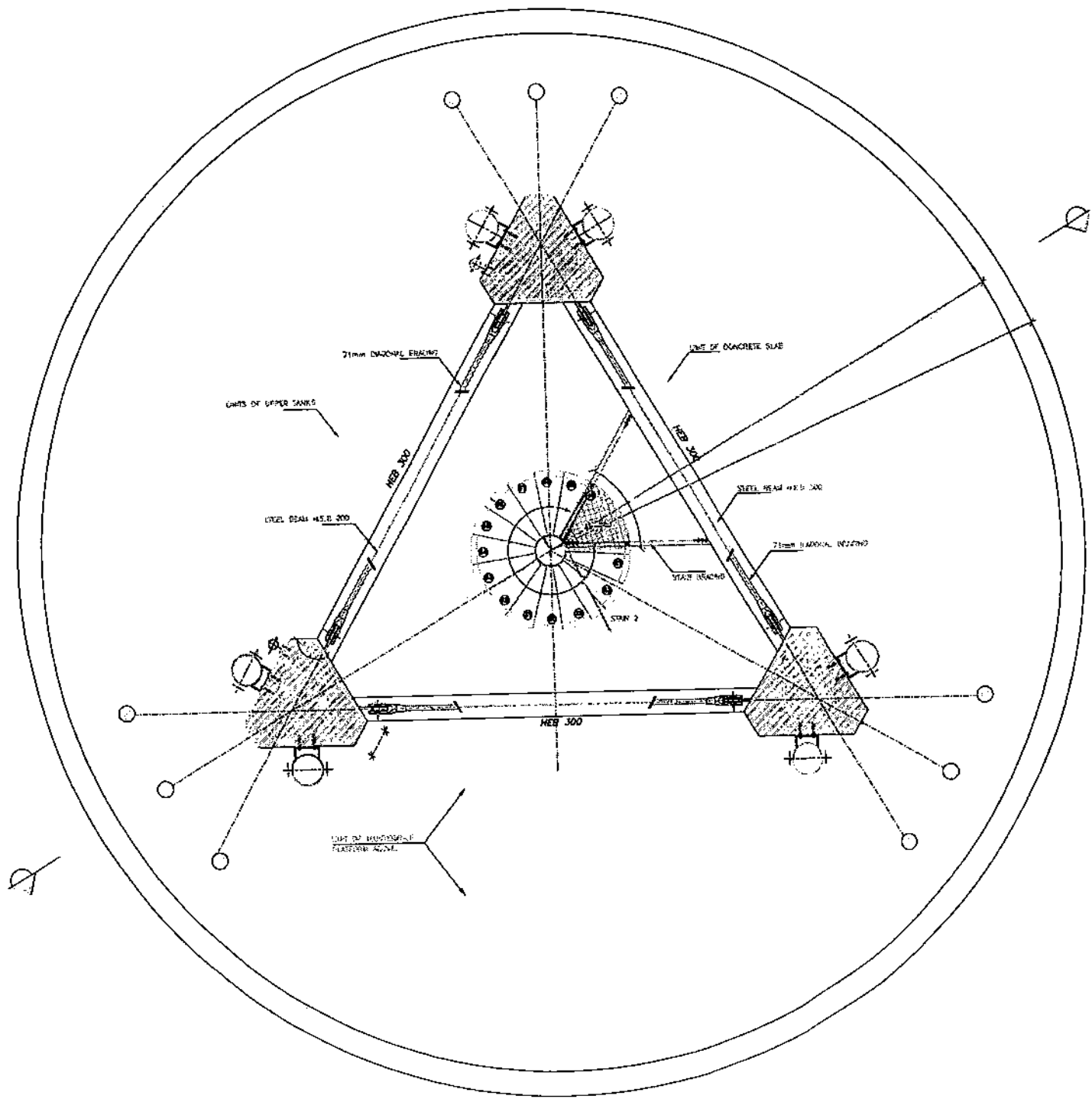
SS 287

SS 287

EDGE OF CONCRETE SLAB

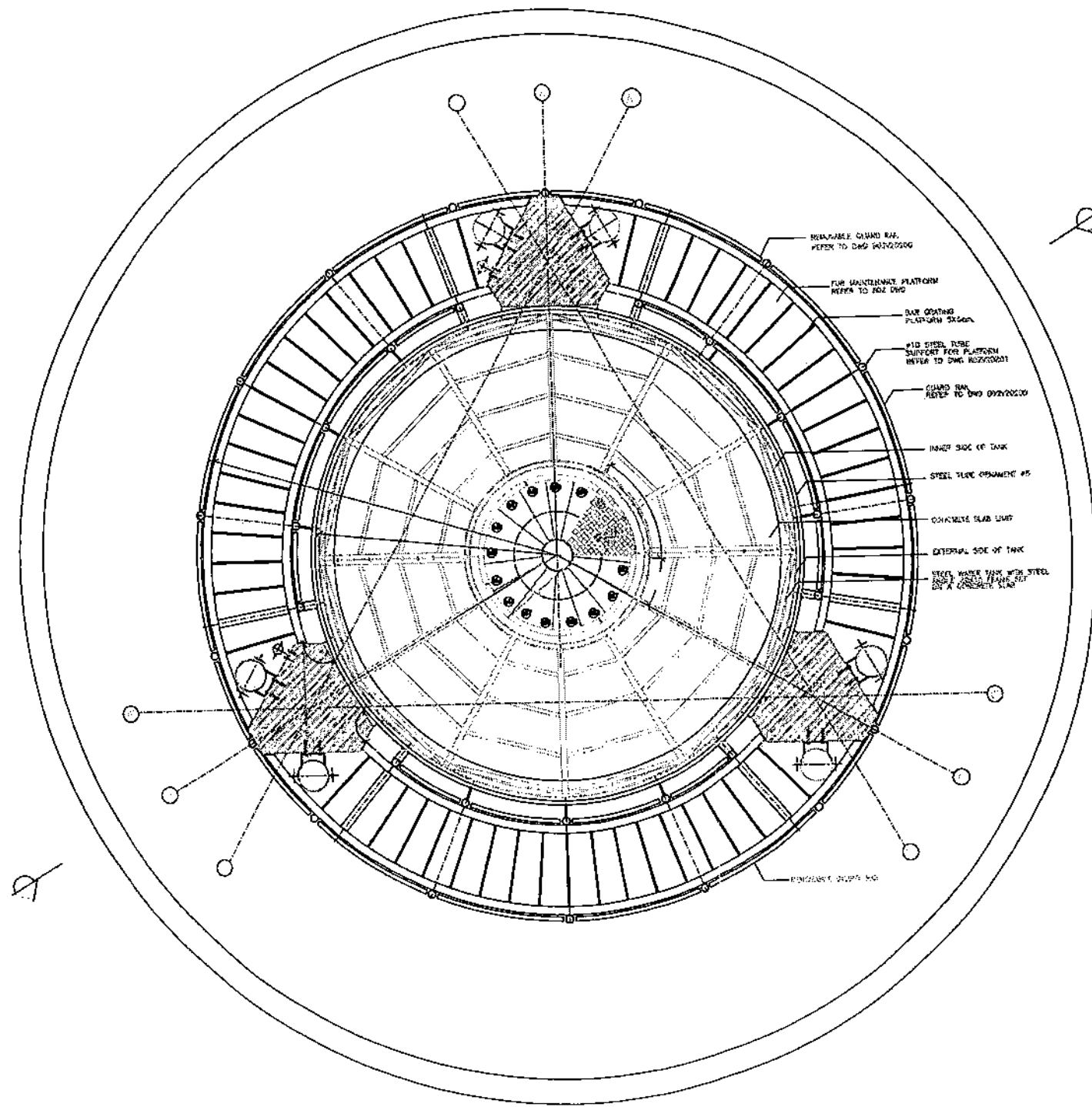
- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 2. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 3. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 4. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 5. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 6. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 7. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 8. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 9. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.
- 10. THE DIMENSIONS OF THE STRUCTURE SHALL BE AS SHOWN IN THE DRAWING.





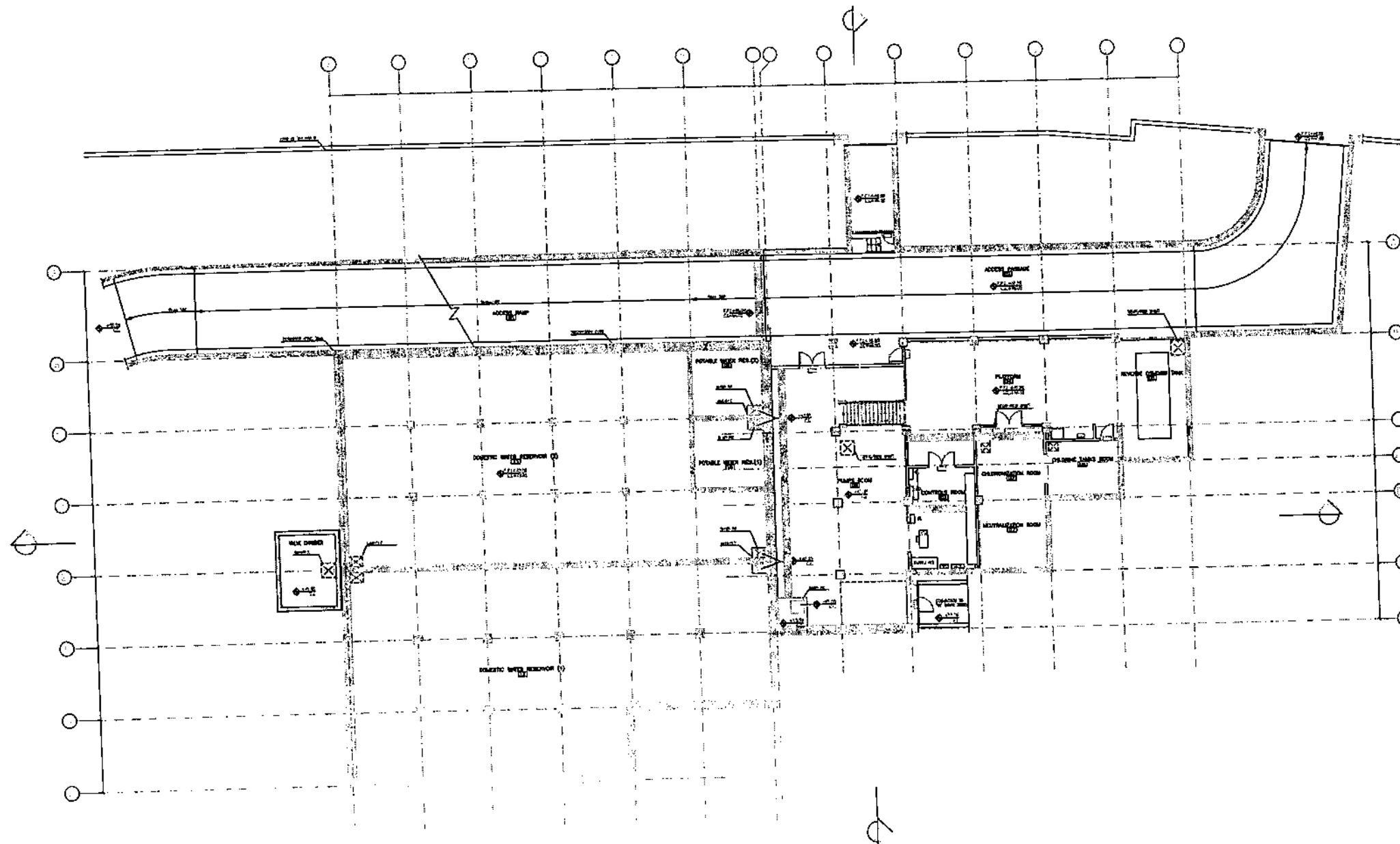
	ALL DIMENSIONS IN METERS UNLESS OTHERWISE SPECIFIED
	ALL DIMENSIONS IN METERS UNLESS OTHERWISE SPECIFIED
	ALL DIMENSIONS IN METERS UNLESS OTHERWISE SPECIFIED
	ALL DIMENSIONS IN METERS UNLESS OTHERWISE SPECIFIED

DRAWING NO. 100/100/100
 DATE 10/10/10
 SCALE 1:100



1. THE EXISTING PLATFORM SLAB SHALL BE REINFORCED WITH STEEL TUBES TO SUPPORT THE PLATFORM.
 2. THE GUARD RAIL SHALL BE INSTALLED AT THE OUTER PERIMETER OF THE PLATFORM.
 3. THE CONCRETE SLAB SHALL BE CAST IN PLACE AND SHALL BE REINFORCED WITH STEEL TUBES.
 4. THE STEEL WATER TANK SHALL BE INSTALLED ON THE CONCRETE SLAB AND SHALL BE REINFORCED WITH STEEL TUBES.
 5. THE PERMANENT SLABS SHALL BE CAST IN PLACE AND SHALL BE REINFORCED WITH STEEL TUBES.





LEGEND

- WALL, WINDOW FRAME, OR DOOR FRAME (THE SYMBOL)
- DOOR (THE SYMBOL)
- DOOR WITH WINDOW (THE SYMBOL)
- DOOR WITH WINDOW AND TRANSOM (THE SYMBOL)
- DOOR WITH WINDOW AND TRANSOM AND PANEL (THE SYMBOL)

NOTES

- ALL ROOMS SHOWN ARE TO BE CONSTRUCTED AS PER THE ARCHITECT'S INTENT.
- ALL ROOMS SHOWN ARE TO BE CONSTRUCTED AS PER THE ARCHITECT'S INTENT.
- ALL ROOMS SHOWN ARE TO BE CONSTRUCTED AS PER THE ARCHITECT'S INTENT.

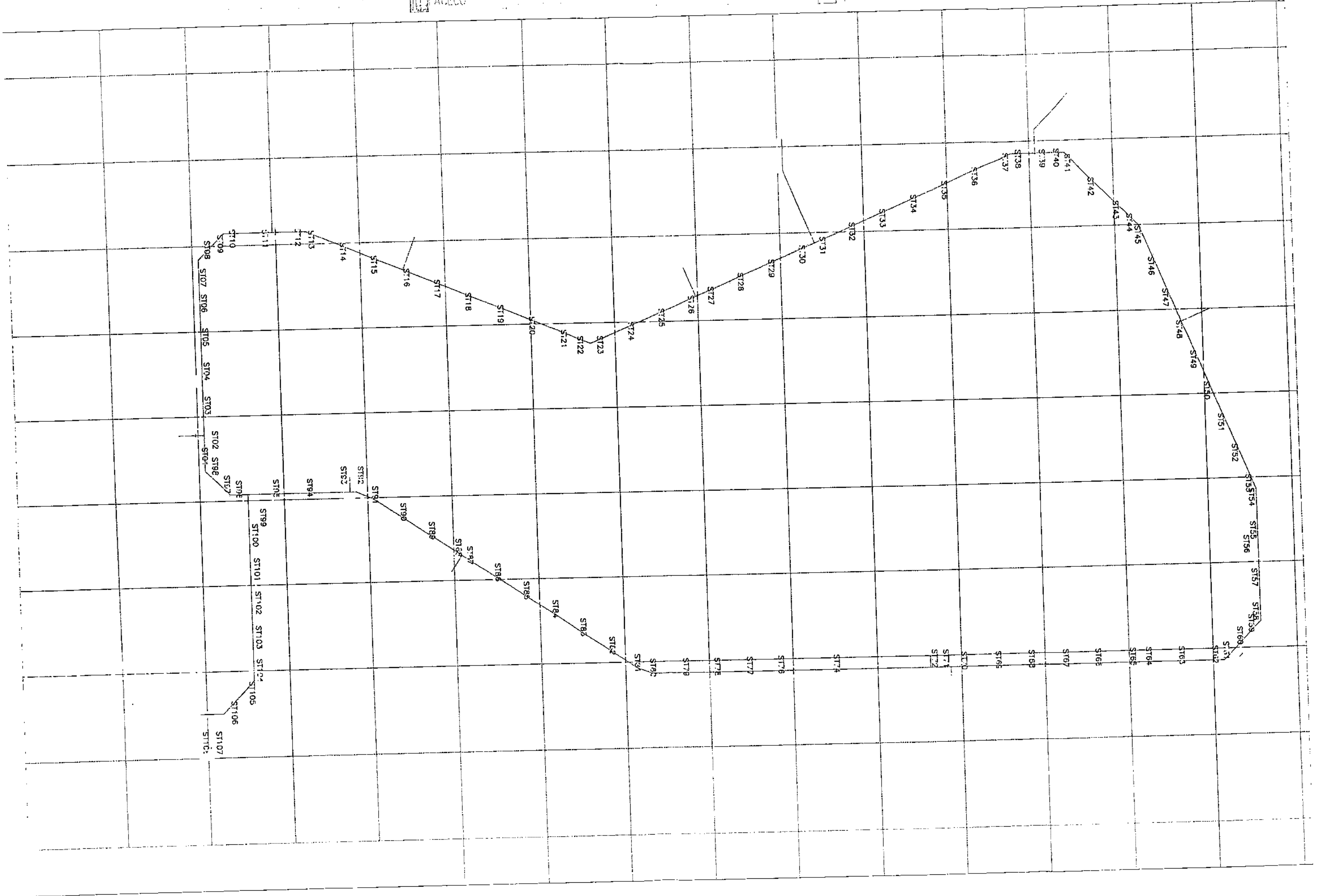
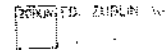
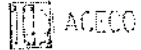
PROJECT:

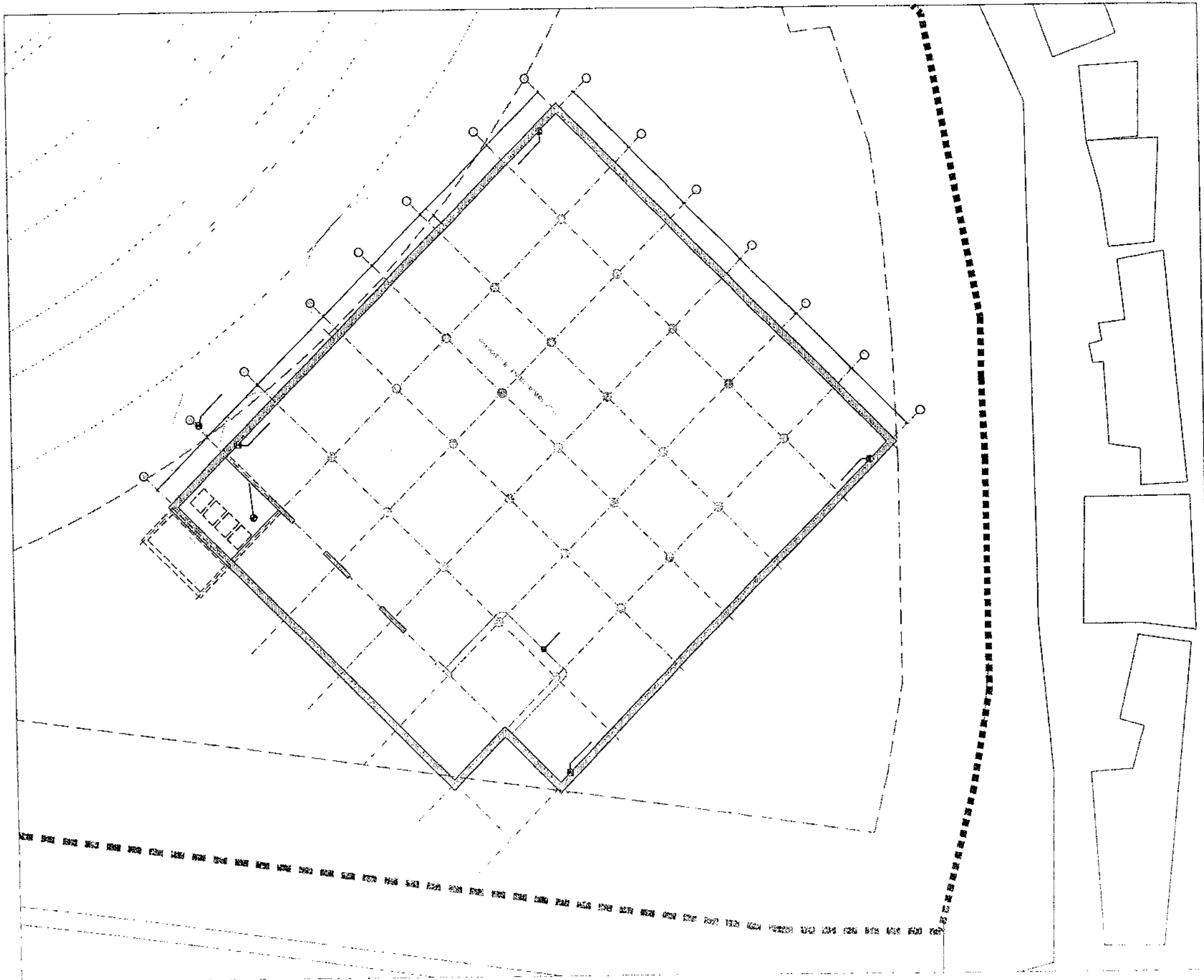
EMPLOYER:

DESIGN AND SUPERVISION:

CONTROL BUREAU:

CONTRACTOR:



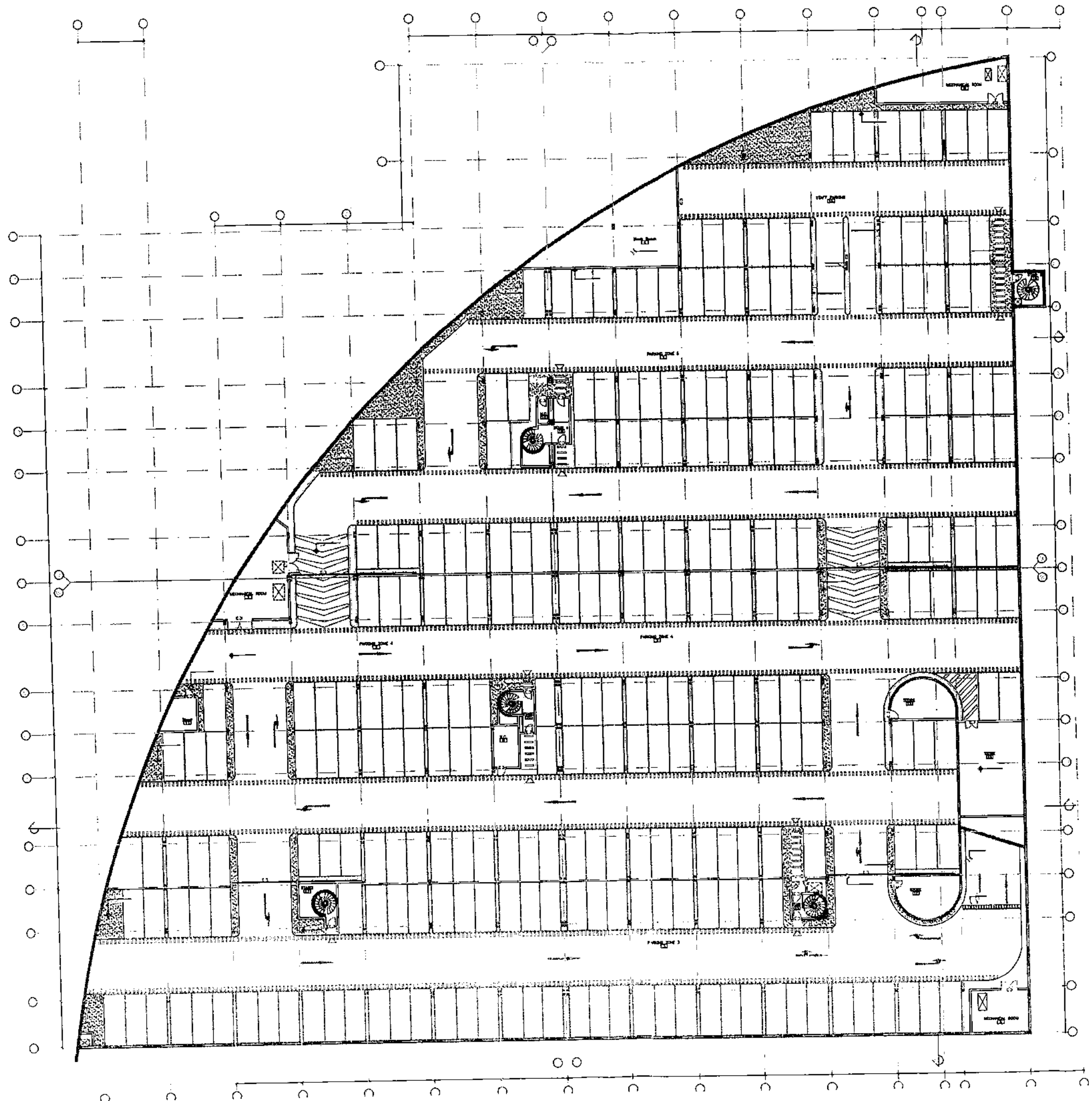


1. ...

 2. ...

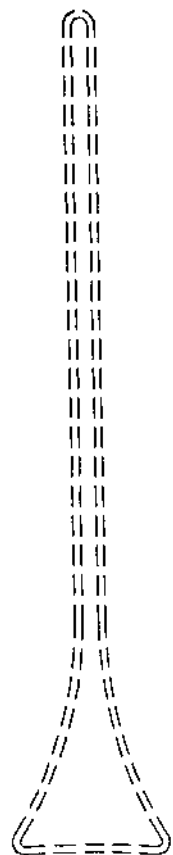
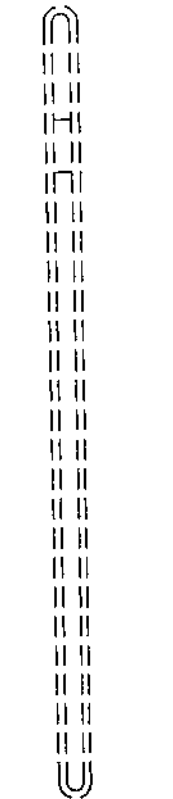
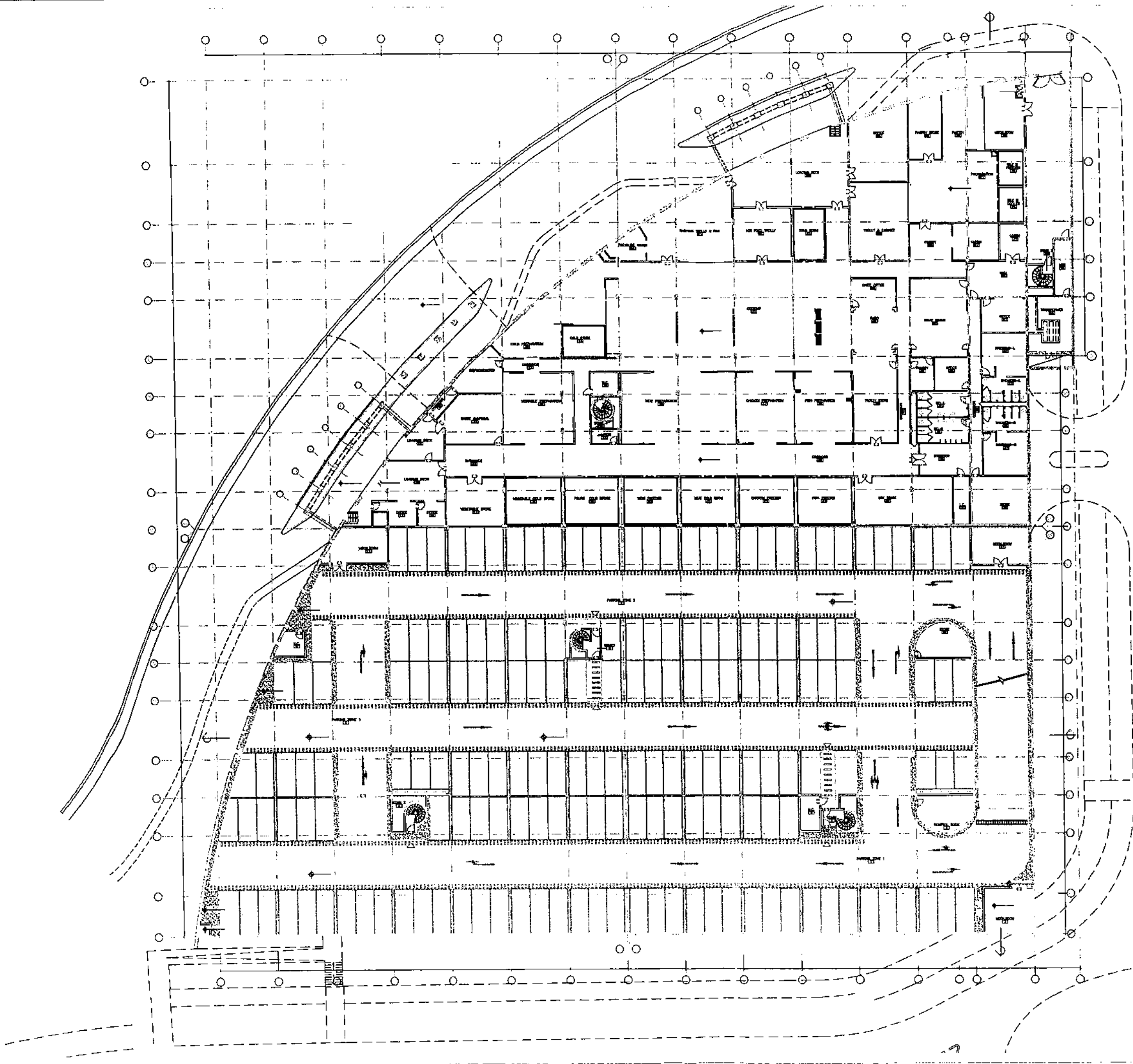
 3. ...

 4. ...



- 1. ...
 ...
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- 2. ...
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- 3. ...
 ...
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- 4. ...
 ...
 ...





- 1. Room numbers
- 2. Wall, window, door, etc.
- 3. Room name
- 4. Room number
- 5. Room name
- 6. Room number

1. ROOM NUMBER

2. WALL, WINDOW, DOOR, ETC.

3. ROOM NAME

4. ROOM NUMBER

5. ROOM NAME

6. ROOM NUMBER

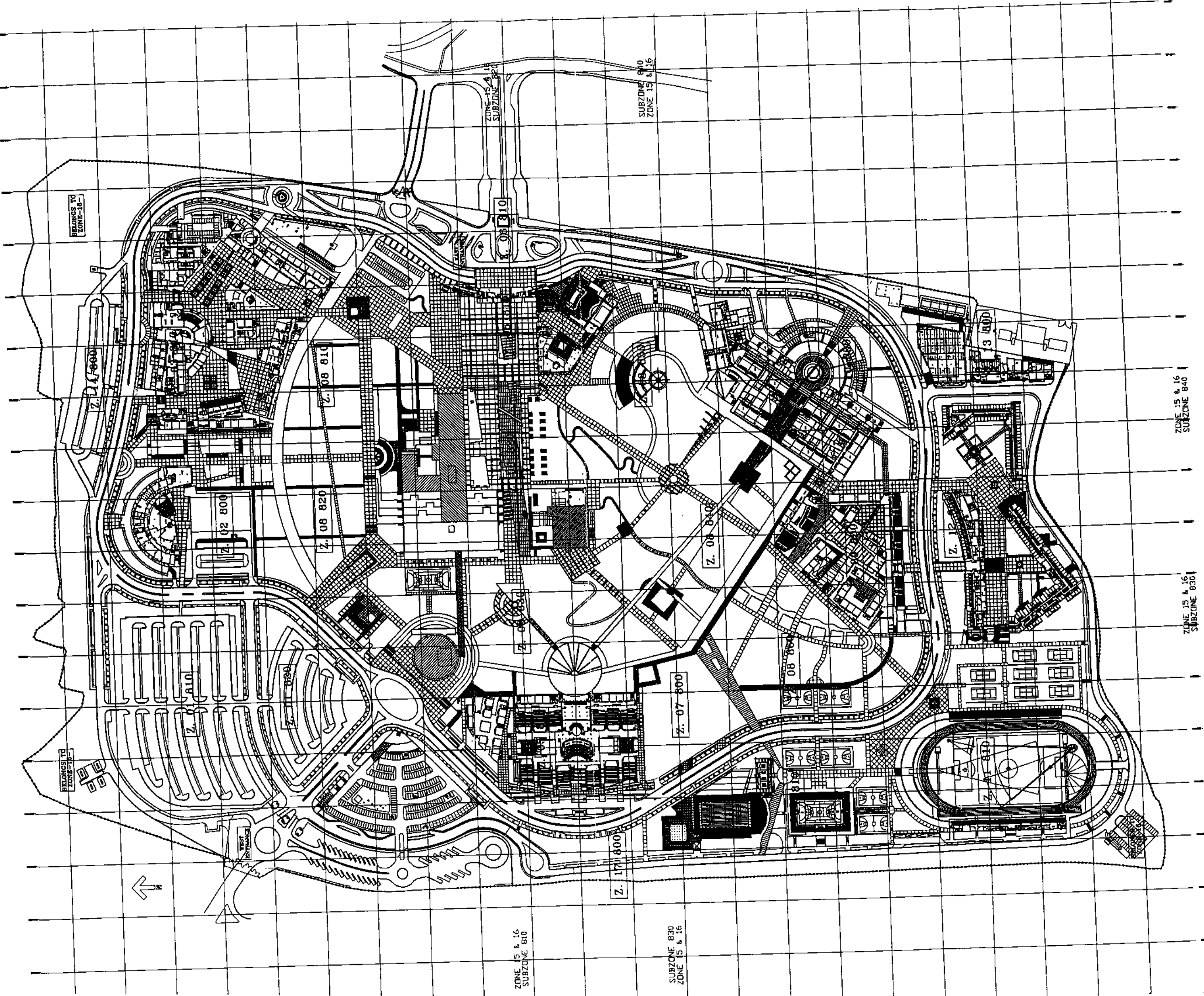


ZONE 15 & 16
SUBZONE B20

ZONE 15 & 16
SUBZONE B10

ZONE 15 & 16
SUBZONE B40

ZONE 15 & 16
SUBZONE B30



ZONE 15 & 16
SUBZONE B10

SUBZONE 830
ZONE 15 & 16