



PC-1

Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)

ORIGINAL APPROVED COST	PKR Million. 6,963.192/-
ORIGINAL APPROVED GESTATION	24 Months Till June 2027
APPROVAL FORUM	PDWP (PDWP)

1. NAME OF THE PROJECT

Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. LAHORE

2.2. TEHSIL(S)

I. RAIWIND



3. AUTHORITIES RESPONSIBLE FOR

3.1. SPONSORING AGENCY

- FORESTRY, WILDLIFE, FISHERIES

3.2. EXECUTION AGENCY

- FORESTRY
- FORESTRY, WILDLIFE & FISHERIES
- WASA LAHORE
- WILDLIFE

3.3. OPERATIONS AND MAINTENANCE AGENCY

- WILDLIFE

3.4. CONCERNED FEDERAL MINISTRY

4. PLAN PROVISION

Sr #	Description
1	Source of Funding: Scheme Listed in ADP CFY
2	GS No: 2604
3	Total Allocation: 5.000

Comments:

5. PROJECT OBJECTIVES

The project has following major objectives:

1. **Enhancement of ex-situ wildlife conservation and management standards** through development of scientifically designed enclosures, naturalistic habitats, and ecosystem-specific zones that support the physical and behavioural well-being of perse native and exotic species under human care.
2. **Promotion of wildlife-based environmental education and awareness** by creating immersive and interactive learning environments that effectively communicate ecological knowledge, species-specific information, and conservation challenges to a broad spectrum of visitors including students, families, and tourists.
3. **Modernization of zoo infrastructure and operational systems** by introducing contemporary design, upgraded utilities, advanced exhibit technologies, and visitor amenities, with the aim of aligning institutional functioning with international zoological benchmarks and enhancing service delivery.
4. **Expansion and persification of captive animal populations** by scientifically procuring and managing a wide array of terrestrial, aquatic, and avian species to increase biopersity representation, support conservation education, and foster species-based engagement with the public.
5. **Integration of recreation with conservation messaging** through the development of wildlife-themed leisure spaces and attractions that provide entertainment in a controlled, educational setting, thereby increasing visitor dwell time and enhancing the recreational value of the zoological facility.
6. **Improvement of ecological integrity and visual landscape aesthetics** through habitat restoration, lake rehabilitation, greenery enhancement, and eco-sensitive sculptural installations aimed at beautifying the space while promoting a healthy environment for both animals and visitors.
7. **Provision of improved staff welfare and living conditions** through the development of better-planned residential facilities, upgraded basic services, and clearly demarcated zones that separate staff areas from public access for efficient management and well-being of employees.

8. **Strengthening of the institutional role of the zoo** as a national model for conservation-led development by incorporating innovation, education, species care, and sustainable tourism principles into daily operations and long-term planning.
9. **Stimulation of wildlife-based tourism and economic upliftment** through enhancement of the visitor experience, increased attractiveness of the site, and development of revenue-generating opportunities that contribute to local and provincial economic activity.
10. **Projection of a progressive and responsible image of Punjab and Pakistan at the global level**, demonstrating commitment to bioprosity conservation, environmental stewardship, and the creation of modern nature-oriented recreational and educational destinations.

6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT:

Description of the Project

The proposed project titled “**Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)**” is a continuation of the Government of Punjab’s vision to develop and transform Safari Zoo, Lahore into a modern, world-class facility that serves the core functions of **wildlife conservation, public education, environmental awareness, and nature-based recreation**. The initiative is being undertaken by the Punjab Wildlife and Parks Department and follows the successful completion of the initial phase of the Master Plan, which substantially upgraded the existing infrastructure and introduced various international-standard features within the zoo. Phase-II aims to further strengthen and expand this transformation by introducing **new components, advanced facilities, and modern concepts** that align with best global practices in safari parks and zoological management.

The primary objective of this phase is to uplift the Safari Zoo to even greater heights of excellence by incorporating both educational and recreational innovations that will not only **enhance animal welfare and species persity**, but also significantly improve the **visitor experience, institutional capacity, and public image** of the Safari Zoo, Lahore. The project has been planned to integrate conservation principles with interactive displays, habitat enrichment, immersive infrastructure, and visitor-focused development to make the facility a model of its kind in the country.

One of the major highlights of this phase includes the **establishment of an international-standard walkthrough bird aviary**. This aviary will be among the largest and most unique in the country, housing a wide variety of avian species such as flight birds, waterfowls, and large terrestrial birds. It will offer visitors the rare opportunity to walk through naturalistic bird habitats, observe their behavior up close, and interact with selected species in a controlled and safe environment. This component will not only serve a recreational purpose but also contribute greatly to avian conservation and public education.

In order to persify the recreational offerings and attract a larger volume of domestic and international visitors, a **Wildlife Theme Park** will also be established. This theme park will be developed on modern lines with various wildlife-themed rides, interactive installations, and recreational zones that cater to families and children while retaining a wildlife and conservation-based narrative throughout.

Further contributing to the educational mandate, a **Zoo Education and Exhibition Centre** will be developed. This will be a fully thematic building that will represent all major ecological zones of Punjab and the wildlife associated with them. Using cutting-edge technology, interactive digital displays, 3D models, and real-life installations, this centre will serve as a hub for environmental awareness, school trips, educational campaigns, and wildlife literacy.

Additionally, the **existing Aquarium**, which has already seen major enhancements in the previous phase, will now be further upgraded. The expansion will introduce a wider range of both **freshwater and marine fish species**, including additional shark species. Display tanks, interpretation boards, environmental controls, and visitor facilities will be redesigned to provide a truly immersive underwater experience.

The project also includes the **development of new enclosures for high-interest species** such as **crocodiles and hippopotamuses** all of which will be designed to meet international welfare and display standards. These additions will not only increase the species persity but also greatly increase the attraction and

conservation value of the Safari Zoo.

A significant part of the project focuses on the **upgradation and rehabilitation of existing facilities**, especially the **Pakistani and African ungulate safari sections**. These will be redesigned to offer more naturalistic settings, better terrain, appropriate vegetation, and upgraded boundary and visitor management systems. Similarly, the **central lake** within the zoo premises will undergo ecological restoration and beautification to enhance both its utility for wildlife and its aesthetic contribution to the landscape.

In terms of internal infrastructure, the **existing staff colony**, which is currently inadequate in layout and services, will be **demolished and rebuilt**. The new colony will include proper housing units, a modern sewerage system, and a secure boundary wall that separates it from the public zones of the zoo. This intervention is aimed at improving the living conditions and morale of the staff while also ensuring operational efficiency.

A large-scale **landscaping and habitat development component** will be executed throughout the zoo premises. This will include natural vegetation, tree plantations, enclosure-based habitat design, and public pathway improvement. **Animal-themed sculptures** and **aesthetic installations** will also be placed at strategic locations to enhance visual appeal, encourage photography, and provide educational messaging.

Lastly, in order to populate the newly established enclosures, aviaries, and aquarium tanks, **procurement of various animals**—including mammals, birds, and fish—will be undertaken. The species mix will be carefully selected based on compatibility with the climate, conservation importance, visitor interest, and educational value.

The project will be executed through a **mixed-mode implementation approach**. Components requiring advanced engineering and technical precision—such as the theme park, education centre, and aquarium—will be carried out on an **EPC (Engineering, Procurement & Construction) mode**, ensuring time-bound and quality-controlled delivery. The remaining components, including civil works, animal procurement, landscaping, and other routine development activities, will be executed in the **departmental mode**, as per existing government protocols.

In conclusion, the **“Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)”** is not just a continuation of infrastructure development, but a comprehensive vision aimed at **wildlife conservation, public engagement, environmental education, staff welfare, and eco-tourism promotion**. The project is expected to transform Safari Zoo, Lahore into a flagship institution that serves as a **model for other zoos and safari parks** in the country and represents Pakistan’s **commitment to sustainable, ethical, and modern wildlife management practices**.

Justification of the Project

The proposed project, titled **“Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)”**, is a strategically important initiative aimed at sustaining and expanding the transformation that has already been initiated through the recently concluded Phase-I. The earlier project proved to be a highly successful intervention, bringing about remarkable improvements in infrastructure, animal exhibits, and visitor facilities, which resulted in an unprecedented rise in public interest, visitor footfall, and revenue generation. The overwhelming public response, combined with institutional credibility gained through successful execution, has created a strong foundation that now calls for timely expansion through the implementation of Phase-II. The proposed phase is designed not merely as an extension, but as a major leap forward that introduces new and innovative components which were part of the broader master plan vision but could not be implemented earlier due to time and budgetary constraints.

There is a growing demand from the public for more interactive, immersive, and educational experiences in zoos and safari parks, especially in urban centers like Lahore. The success of Phase-I has elevated visitor expectations, and the current infrastructure, although upgraded, will not be sufficient in the long term to cater to the increasing number of visitors and the evolving recreational preferences of families, children, and students. This project aims to meet this demand through the development of unique, large-scale components such as an international-standard walkthrough bird aviary, a wildlife theme park, and an interactive education and exhibition centre. These additions will greatly enhance the educational, recreational, and conservation functions of the zoo while ensuring that it remains relevant and competitive at national and regional levels.

Another critical justification for this project lies in the need to further persify the captive animal population and improve the overall quality of enclosures and animal welfare systems in line with global standards. New species such as crocodiles and hippos will be introduced, and existing safari sections will be rehabilitated to provide more naturalistic and enriched environments. The project also prioritizes ecological restoration, particularly through the rehabilitation of the zoo's lake and comprehensive landscaping, which will not only beautify the park but also improve habitat conditions for animals. These interventions will enhance the zoo's capacity as a center for conservation education, enabling it to deliver stronger messaging around biopersity, ecological systems, and environmental responsibility.

The economic rationale for the project is equally compelling. With the enhancements proposed under Phase-II, visitor footfall is expected to rise substantially, which will directly boost revenue through ticketing, concessions, and other income streams. This will contribute to the financial sustainability of the facility and reduce reliance on recurring government funding. Additionally, the project will stimulate eco-tourism and associated economic activities in the surrounding areas, benefiting local vendors, transport services, and hospitality sectors.

Furthermore, the existing staff colony and associated infrastructure are outdated, poorly organized, and lacking in essential facilities. This project addresses these challenges by proposing the reconstruction of a planned staff residential area equipped with modern utilities and a separate boundary wall, ensuring improved living conditions and better functional separation between operational and public areas. Upgrading staff facilities is essential for improving internal operations, animal care, and overall institutional performance.

From a policy standpoint, the project aligns with national and provincial goals related to wildlife conservation, public environmental awareness, sustainable tourism, and urban recreational development. It complements Pakistan's commitments under international conventions such as the Convention on Biological Diversity (CBD) and contributes to several Sustainable Development Goals (SDGs), including those related to life on land, sustainable cities, and quality education.

In summary, this project is justified not only as a continuation of a previously successful initiative but as a necessary step to ensure long-term sustainability, institutional relevance, public engagement, and ecological impact. It addresses critical gaps, meets evolving public expectations, enhances species and infrastructure persity, promotes education and tourism, and strengthens the overall image of Punjab and Pakistan as progressive and responsible stewards of wildlife and biopersity.

6.2 SECTORAL SPECIFIC INFORMATION:

The **Wildlife and Parks Department, Punjab** is the primary government institution responsible for the conservation, protection, and sustainable management of wildlife resources in the province. Its mandate includes managing protected areas, breeding and safeguarding endangered species, promoting wildlife education, and developing eco-tourism. In recent years, the department has focused on modernizing zoological facilities and enhancing public engagement through educational and recreational upgrades. The proposed project, "Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)", aligns directly with this vision by expanding on the success of Phase-I and introducing advanced infrastructure, species persity, interactive exhibits, and ecological improvements. It represents the department's commitment to transforming Safari Zoo into a model institution that integrates conservation, education, and sustainable tourism in line with national and international priorities.

7. CAPITAL COST ESTIMATES:

Financial Components: Revenue
Cost Center: OTHERS- (OTHERS)
Fund Center (Controlling): N/A

Grant Number: Development Revenue - (PC22036)
LO NO: LO25000027
A/C To be Credited: Account-I

PKR Million

Sr #	Object Code	2025-2026		2026-2027	
		Local	Foreign	Local	Foreign
1	A03970-Others	5.000	0.000	12.408	0.000
2	A12403-Other Buildings	1,302.764	0.000	476.383	0.000
3	A09601-Purchase of Plant and Machinery	1.400	0.000	16.600	0.000
4	A13801-Maintenance of Gardens	50.000	0.000	50.000	0.000
5	A12404-Structures	30.000	0.000	40.000	0.000
6	A09801-Purchase of Livestock	308.000	0.000	286.910	0.000
7	A02203-Consultant based Research and Surveys	25.570	0.000	13.768	0.000
8	A03901-Stationery	1.000	0.000	1.200	0.000
9	A03907-Advertising and Publicity	3.000	0.000	21.000	0.000
10	A03927-Purchase of Drug and Medicines	10.000	0.000	20.000	0.000
11	A03807-P.O.L Charges A.Planes H.Coptors S.Car	4.000	0.000	6.000	0.000
12	A03407-Rates and Taxes	0.000	0.000	0.300	0.000
13	A03303-Electricity	4.000	0.000	6.000	0.000
14	A12470-Others	1,800.000	0.000	2,440.429	0.000
15	A09701-Purchase of Furniture and Fixture	2.600	0.000	3.900	0.000

16	A01106-Pay of Contract Staff	5.400	0.000	7.560	0.000
17	A09403-Tractors	4.000	0.000	4.000	0.000
Total		3,556.734	0.000	3,406.458	0.000

8. ANNUAL OPERATING COST (POST COMPLETION)

Financial Components: Revenue
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):N/A

Grant Number:Development Revenue - (PC22036)
LO NO:LO25000027
A/C To be Credited:Account-I

		PKR Million
Sr #	Object Code	
Total		

9. Demand and Supply Analysis:

Demand Analysis

In recent years, there has been a substantial and consistent rise in public interest in wildlife-based recreation, nature education, and eco-tourism in Punjab, particularly in urban centers like Lahore. The successful completion of Phase-I of the Safari Zoo Master Plan generated overwhelming public response, with record increases in visitor numbers and revenue, indicating a clear and growing demand for more advanced, interactive, and engaging zoological facilities. Families, school groups, tourists, and nature enthusiasts are actively seeking safe, well-maintained, and informative recreational environments that offer both entertainment and learning. The demand is further driven by increasing environmental awareness, changing urban lifestyles, limited access to natural landscapes, and the need for family-friendly outdoor spaces. With the rise in population and urban expansion, the existing facilities at Safari Zoo are reaching capacity limits and are no longer sufficient to meet the evolving expectations of a perse and growing visitor base. Therefore, there is a clear and urgent need to expand, modernize, and persify the zoo's offerings to sustain and enhance public engagement.

Supply Analysis

Currently, the supply of modern wildlife-based educational and recreational facilities in Punjab is limited, with most existing zoos and safari parks still operating under outdated infrastructure, limited species persity, and inadequate public amenities. Although Phase-I of the Safari Zoo project made significant improvements, it only partially fulfilled the broader vision outlined in the Master Plan. Key components such as an international-standard aviary, wildlife theme park, upgraded aquarium, thematic education center, and improved species representation remain unaddressed. Furthermore, very few zoological institutions in Pakistan offer immersive, habitat-based exhibits or integrate recreation with conservation education. The gap between rising public demand and available infrastructure is widening, and without timely interventions, this mismatch could result in overcrowding, declining visitor satisfaction, and lost revenue opportunities. The proposed Phase-II project will bridge this gap by significantly expanding the zoo's infrastructure, introducing globally inspired components, and increasing institutional capacity to meet both present and future demand effectively.

10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION:

The Project will be implemented through ADP of Punjab Government.

10.2 FINANCIAL PLAN DEBT INFORMATION:

Not Applicable

10.3 FINANCIAL PLAN GRANT INFORMATION:

Not Applicable

10.4 WEIGHT COST OF CAPITAL INFORMATION:

Not Applicable

11. PROJECT BENIFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION:

The implementation of the project "Master Plan of Safari Zoo, Lahore (Phase-II)" is expected to deliver wide-ranging and long-term benefits across multiple sectors including conservation, education, recreation, tourism, and institutional development. At its core, the project will significantly enhance public access to a modern, safe, and engaging wildlife facility, thereby promoting environmental awareness, wildlife education, and nature-based learning among a wide cross-section of society, especially students and

families. The introduction of interactive, thematic, and international-standard facilities will not only elevate the recreational experience but also support conservation messaging in a more impactful and memorable manner. Additionally, the project will contribute to local economic uplift through increased tourism, job creation, and related commercial activity, while also generating higher non-tax revenue for the government through ticket sales and associated services. On the institutional front, the project will strengthen the operational capacity of the Wildlife and Parks Department by upgrading infrastructure, improving animal welfare standards, and enhancing staff accommodation and working conditions. The overall development will also serve as a model for other zoological and recreational facilities across Pakistan, setting a benchmark for future projects. Moreover, the revitalization of green spaces, water bodies, and natural habitats within the zoo premises will contribute positively to the urban environment and bioprosity conservation efforts. In essence, the project offers a high-impact, multi-dimensional return by fulfilling conservation goals, responding to public demand, promoting sustainable tourism, and reinforcing the image of Punjab as a progressive province in wildlife management and eco-recreational development.

11.2 ENVIRONMENTAL IMPACT ANALYSIS:

The implementation of this project is expected to yield **positive environmental impacts**, both directly and indirectly. The proposed interventions—such as the creation of enriched animal enclosures, rehabilitation of natural habitats, landscaping with native flora, and restoration of the lake—will enhance bioprosity, promote urban ecological balance, and contribute to the greening of Lahore’s urban landscape. The project places emphasis on eco-friendly development through habitat simulation, improved waste management, and natural water use systems, thereby minimizing the ecological footprint of construction and operations. By promoting environmental education through interactive exhibits and learning centers, the project will also foster a greater sense of ecological responsibility among visitors, especially the younger generation. Moreover, the increased vegetation cover and waterbody restoration are expected to improve local air quality, create microclimatic benefits, and provide additional refuge for native birds and small wildlife. All these components align with broader environmental sustainability goals and demonstrate the department’s commitment to conservation-driven development. Any temporary environmental disturbances caused during the construction phase will be addressed through mitigation measures such as controlled waste disposal, noise and dust reduction strategies, and minimal disturbance to existing vegetation and habitats.

11.3 ECONOMIC ANALYSIS:

The project carries significant potential to stimulate economic activity at multiple levels. The upgraded Safari Zoo is projected to attract a substantially larger number of visitors, thereby contributing to **increased tourism revenue** not only for the zoo but also for nearby businesses including food vendors, transport services, shops, and hospitality establishments. This will directly support local employment and generate income for the surrounding communities. Furthermore, the construction phase itself will create a substantial number of **skilled and unskilled jobs**, providing short-term economic uplift. Once operational, the facility will offer sustainable employment opportunities in animal care, education, maintenance, security, and visitor services. The attraction of both domestic and potential international tourists will position the zoo as a flagship eco-tourism site in Punjab, contributing to the province’s overall tourism strategy. The economic benefits also include increased indirect tax revenues through ancillary commercial activities, as well as enhanced property values in adjacent areas due to improved public infrastructure and environmental aesthetics. The project represents a high socio-economic return by combining recreation, education, and conservation in a manner that fuels long-term economic development.

11.4 FINANCIAL ANALYSIS:

From a financial perspective, the project is expected to generate **strong, recurring revenue streams** that will support its sustainability and reduce long-term reliance on government funding. The previous phase demonstrated a significant rise in revenue through increased ticket sales and ancillary services, a trend that is projected to continue and expand further with the enhanced facilities introduced in Phase-II. Revenue will be generated from multiple sources including entry tickets, special exhibits, ride attractions, parking fees, educational programs, guided tours, and potentially merchandise or food outlets. The project’s financial

model benefits from a mixed-mode execution strategy where high-cost, complex components are developed through EPC mode, ensuring cost control and timely delivery. Simultaneously, the department will execute certain components directly using existing public-sector mechanisms, keeping overheads lower. The overall capital investment will result in higher revenue generation capacity, allowing for partial or full operational cost recovery over time. Moreover, with enhanced public interest and visitor experience, the potential for public-private partnerships and corporate sponsorships also increases, offering additional financial inflows. In summary, the project is financially viable, offers a promising revenue outlook, and has strong potential for long-term financial self-sustainability once the upgraded facility becomes fully functional.

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART:

The project will be implemented w.e.f the date of approval to 30.06.2027.

12.2 RESULT BASED MONITORING (RBM) INDICATORS:

As enclosed in relevant annexure

12.3 IMPLEMENTATION PLAN:

As enclosed in relevant annexure

12.4 M&E PLAN:

The regular monitoring of the project during the implementation phase will be conducted by the PM&E wing of the wildlife department and DG M&E, while the evaluation of the project will be done by the Directorate General Monitoring & Evaluation, Planning & Development Department.

12.5 RISK MITIGATION PLAN:

As enclosed in relevant annexure

12.6 PROCUREMENT PLAN:

As enclosed in relevant annexure

13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

Director General, Wildlife & Parks, Punjab will be the overall incharge of the project during its implementation. A project incharge shall be deputed till recruitment or posting of Project Director who will be responsible for project implementation through the Project Management Unit, Wildlife & Parks Punjab. The Planning & Development Board will undertake the final evaluation after its completion.

14. ADDITIONAL PROJECTS / DECISIONS REQUIRED

15. CERTIFICATE

Focal Person Name:Adnan Ali

Designation:Deputy Chief Wildlife Ranger, Safari Zoo, Lahore

Email:

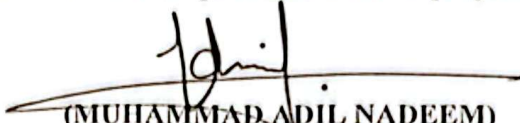
Tel. No.:03005059055

Fax No:

Address:Office of the Deputy Chief Wildlife Ranger, Safari Zoo, Raiwind, Lahore.

15. Certified that the project proposal has been prepared on the basis of instructions provided by the Planning Commission for the preparation of PC-I for production sector projects.

PREPARED BY:


(MUHAMMAD ADIL NADEEM)
MONITORING & EVALUATION OFFICER
WILDLIFE & PARKS PUNJAB
HEADOFFICE LAHORE

FORWARDED BY:


(SABA ADIL)
PROJECT DIRECTOR
PROJECT MANAGEMENT UNIT
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CHECKED BY:


(MUBEEN ILLAHI)
DIRECTOR GENERAL
WILDLIFE & PARKS, PUNJAB
2-SANDA ROAD, LAHORE

REVIEWED BY:


(CAPT. (RETD) TAHIR ZAFAR ABBASI)
SPECIAL SECRETARY
GOVERNMENT OF THE PUNJAB
FOREST, WILDLIFE & FISHERIES
DEPARTMENT, LAHORE

SUBMITTED BY:


(MUDDASSIR RIAZ MALIK)
SECRETARY
GOVERNMENT OF THE PUNJAB
FOREST, WILDLIFE & FISHERIES
DEPARTMENT, LAHORE

18. RELATION WITH OTHER PROJECTS

20. FOCUS ON MARGINALISATION

SR.NO.	CRITERIA	YES/NO	ACTION	COMMENTS
Description & Objectives				
1	Do the description / Objectives of the PC-I specify link / alignment with provincial strategies and sectoral policies?	NO		
Use of Gender Disaggregated Data				
1	Was gender disaggregated data used to determine rationale / need of the project for select beneficiaries?	NO		
Social Impact				
1	Do project objectives/justification include focus on marginalised groups (women, PWDs, minorities, transgender, poor etc.)?	NO		
1a	Have marginalised groups (Women, PWDs, Minorities, Transgender Persons, Poor etc.) been included in project objectives / justification and / or as beneficiaries of the project?	NO		
2	Does the PC-1 include specific provisions for capacity building / training of marginalised group (if applicable)?	NO		
Results Based Monitoring				
1a	Does the PC-I include a Results Based Monitoring Framework (RBMF)/Logical Framework?	NO		
2	Were SDG indicators used for determining targets included in the PC-I?	NO		
Inclusion/Participation				

1	Did the Stakeholder consultation(s) held during ADP Formulation and / or PC-I development include experts and representatives of marginalised groups and CSOs?	NO		
Monitoring & Evaluation				
1	Does the project provide a role to communities in project monitoring and/or implementation (if relevant)?	NO		
2a	Does the project include formation of a Steering Committee and/or Project Implementation Committees?	NO		
2b	Is there a provision to ensure representation of women in these committees?	NO		

AREA STATEMENT

The project will be carried out at Safari Zoo, Raiwind, Lahore.

CONSERVANCY & WORKS**(Rs. in million)**

Sr. No.	Description	2025-26	2026-27	Total
1	Construction of Boundary Wall	-	8.788	8.788
2	Construction of Approach Path to Residences	-	2.756	2.756
3	Construction of Staff Residencies	120.000	122.977	242.977
4	Construction of Birds Aviary	813.273	-	813.273
5	Construction of Hippo Housing	-	79.080	79.080
6	Construction of Crocodile Pond	60.490	16.300	76.790
7	Construction of Pakistani Ungulates Enclosure	-	45.708	45.708
8	Construction of African Ungulates Enclosure	-	83.300	83.300
9	Rehabilitation of Existing Lake	50.000	20.187	70.187
10	Woodland Lodges	21.059	31.590	52.649
11	Approach Track and Outdoor Sitting of Woodland Lodges	-	5.520	5.520
12	Sewerage System	237.942	-	237.942
13	Road Carpeting	-	10.301	10.301
14	Rock Climbing Wall	-	47.620	47.620
15	Provision of Small Structures	-	2.256	2.256
	Total	1302.764	476.383	1779.147

Note: Resident Supervision of the project will be undertaken by the Administrative Department.

MACHINERY AND EQUIPMENT

(Rs. in million)

Sr. No.	Items	Unit Rate	Qty	2025-26	2026-27	Total
1	Bird Breeding Boxes	0.015	200	1.400	1.600	3.000
2	Tractor along with accessories	4.000	2	4.000	4.000	8.000
3	Children Play Area	15.000	L.S	0.000	15.000	15.000
4	Furniture for Wooden Lodges	0.650	10	2.600	3.900	6.500
Total				8.000	24.500	32.500

COST OF ESTABLISHMENT

(Rs. in million)

Sr. No.	Name of Post	PPS	No. of Post	Salary Range	Per month Salary	2025-26	Annual Increment	2026-27	Total
1.	Project Director	10	1	437,500 – 700,000	0.600	5.400	8%	7.560	12.960
Total:			1	-	-	5.400	-	7.560	12.960

COMMODITIES & SERVICES**(Rs. in million)**

Sr. No.	Items	2025-26	2026-27	Total
1	Landscaping and Habitat Development	50.000	50.000	100.000
2	Sculptures and Theming	30.000	40.000	70.000
3	Purchase of animals and birds	248.000	280.910	528.910
4	Purchase of Fishes for Aquarium	60.000	6.000	66.000
5	Stationary	1.000	1.200	2.200
6	Signage	-	20.000	20.000
7	Publicity & Advertisement	3.000	1.000	4.000
8	Medicine	10.000	20.000	30.000
9	POL	4.000	6.000	10.000
10	Rate and Taxes	-	0.300	0.300
11	Electricity	4.000	6.000	10.000
12	Upto 2.5% Consultancy on capital cost	25.570	13.768	39.338
	Total	435.570	445.178	880.748
13	Others (<2% Contingency)	5.000	12.408	17.408
	G. Total	440.570	457.586	898.156

SUMMARY OF COST

(Rs. in million)

Sr. #	Item	2025-26	2026-27	Total
1.	Conservancy & Works	1302.764	476.383	1779.147
2.	Machinery, Store & Equipment	8.000	24.500	32.500
3.	Cost of Establishment	5.400	7.560	12.960
4.	Commodities & Services	440.570	457.586	898.156
5.	EPC Component (Aquarium)	1300.000	206.416	1506.416
6.	EPC Component (Immersive Experience Center)	500.000	909.977	1409.977
7.	EPC Component (Theme Park)	-	1324.036	1324.036
Total:		3556.734	3406.458	6963.192

ANNUAL RECURRING COST AFTER COMPLETION OF SCHEME**(Rs. in million)**

Sr. No.	Item / Work	2027-28	2028-29	2029-30
1.	Maintenance of Infrastructure	30.000	50.000	80.000
2.	Other Contingency	5.000	6.000	11.000
Total:		35.000	56.000	91.000

EPC COMPONENT

AQUARIUM

Sr. No.	Item	PKR
1	Capital Works	350.481
2	Design and Services	22.500
3	Tanks:	375.292
	i. Arcylic Works ii. Cylinder Tanks iii. Tunnel Aquarium iv. Curve Tanks v. All tanks and water proofing	
4	Sump System	8.316
5	Rocks	4.507
6	Sand	7.323
7	Sand Filter	13.784
8	Skimmer	20.762
9	Wavemakers	15.490
10	Lights	24.773
11	Sea Salts	51.529
12	Return Pump	12.496
13	Supplements	6.538
14	Bio Media	6.538
15	Labor	22.500
16	Interior	16.500
17	UV	1.550
18	Aqua scaping	74.431
19	Prefabrication	22.500
20	Water Chillers	22.600
21	Automation	7.500
22	Glass Tanks	7.500
23	Hippo Viewing Enclosure	20.000
24	Electrification incl. air conditioning, power backup etc, complete in all respect	170.000
25	Interactive Screens, Project icl. Content	10.000
26	IT Equipment	1.500
27	Consultancy	27.458
28	Applicable Taxes	182.048
Total		1506.416

PROPOSAL

Lahore Safari Zoo Aquariums Extension Plan Summary

Sr#	Name	<u>Details</u>	<u>PKR</u>
1	Services	Designing and Services	22,500,000
2	Tanks	Acrylic works	375,292,400
		Cylinder tanks	
		Tunnel Aquarium	
		Curve Tanks	
		All tanks and Water Proofing	
3	Sump System	Sump Filtration System	11,466,067
		80 Schedule PVC Plumbing	
4	Rocks	Live Rocks	4,506,589
5	Sand	Sand	7,322,551
6	Sand Filter	Sand Filter	13,783,811
7	Skimmer	Proteins Skimmer	20,761,614
8	Wavemaker	Wavemakers	15,489,703
9	Lights	Led lights	24,772,618
10	SALT	Sea Salt	51,528,846
11	Return Pump	Return Pumps and Reactor	12,495,609
12	Supplements	Carbon, Medicine and Phosban	6,538,432
13	Bio Media	Bio media	6,538,432
14	Labor	Labor, living and Transportation (International Workers)	22,500,000
15	Interior	Interior designing and clading	16,500,000
16	UV	Uv and Ozonizer Sterilization	15,469,512
17	AquaScaping	Artificial Aquascaping	74,430,633
18		Prefabrication	22,500,000
19	Chillers	Water chiller	24,600,021
20	Automation	Auto testing and Dosing Systems	7,500,000
21	Live Stock	Fishes, Inevertebrates, Corals	66,000,000
22	Glass tanks	Glass Aquarium	7,500,000
		Total (PKR)	829,995,939

Note: Electric Work, Civil work Not Included

Exclusive of All Aplicable taxes

This Proposal Is valid till 1 month

This Proposal include all Custom and clearance charges , Except Civil and Electric Work

FRESHWATER CURVE ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (L 340" x W 59")	10,380,000
		Acrylic thickness 80mm	
		Water volume 52500 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	350,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	200,000
4	Sand	Sand	300,000
5	Sand Filter	Sand Filter	595,668
6	Wavemaker	Wavemakers	661,854
7	Lights	Led lights	1,058,966
8	Return Pump	Return Pumps and Reactor	529,483
9	Supplements	Carbon, Medicine and Phosban	264,741
10	Bio Media	Bio media	264,741
11	UV	Uv and Ozonizer Sterilization	661,854
12	AquaScaping	Artificial Aquascaping	15,000,000
13	Chillers	Water chiller	1,200,000
14	Automation	Auto testing and Dosing Systems	350,000
15			
16			
		TOTAL ITEMS QUANTITY	31,817,308
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

FRESHWATER CYLINDER ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (Dia 173 " x Height 118")	33,170,000
		Acrylic thickness 100mm	
		Water volume 45590 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	350,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	114,948
4	Sand	Sand	229,896
5	Sand Filter	Sand Filter	517,267
6	Wavemaker	Wavemakers	574,741
7	Lights	Led lights	919,586
8	Return Pump	Return Pumps and Reactor	459,793
9	Supplements	Carbon, Medicine and Phosban	229,896
10	Bio Media	Bio media	229,896
11	UV	Uv and Ozonizer Sterilization	574,741
12	AquaScaping	Artificial Aquascaping	2,298,965
13	Chillers	Water chiller	919,586
14	Automation	Auto testing and Dosing Systems	350,000
		TOTAL ITEMS QUANTITY	40,939,316
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

FRESHWATER CURVE ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (L 54 " x W 59")	12,450,000
		Acrylic thickness 100mm	
		Water volume 36000 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	300,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	90,769
4	Sand	Sand	181,537
5	Sand Filter	Sand Filter	408,458
6	Wavemaker	Wavemakers	453,843
7	Lights	Led lights	726,148
8	Return Pump	Return Pumps and Reactor	363,074
9	Supplements	Carbon, Medicine and Phosban	181,537
10	Bio Media	Bio media	181,537
11	UV	Uv and Ozonizer Sterilization	453,843
12	AquaScaping	Artificial Aquascaping	1,815,370
13	Chillers	Water chiller	726,148
14	Automation	Auto testing and Dosing Systems	350,000
		TOTAL ITEMS QUANTITY	18,682,263
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

FRESHWATER FLAT ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (L 279 " x W 59")	13,750,000
		Acrylic thickness 150mm	
		Water volume 25500 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	250,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	64,294
4	Sand	Sand	128,589
5	Sand Filter	Sand Filter	289,325
6	Wavemaker	Wavemakers	321,472
7	Lights	Led lights	514,355
8	Return Pump	Return Pumps and Reactor	257,177
9	Supplements	Carbon, Medicine and Phosban	128,589
10	Bio Media	Bio media	128,589
11	UV	Uv and Ozonizer Sterilization	321,472
12	AquaScaping	Artificial Aquascaping	1,285,887
13	Chillers	Water chiller	514,355
14	Automation	Auto testing and Dosing Systems	250,000
		TOTAL ITEMS QUANTITY	18,204,103
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

CURVE MARINE ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (L 90 " x W 74")	12,960,000
		Acrylic thickness 50mm	
		Water volume 7560 Liters	
		Quantity 4	
2	Sump System	Sump Filtration System	200,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	76,246
4	Sand	Sand	152,491
5	Sand Filter	Sand Filter	343,105
6	Skimmer	Proteins Skimmer	585,145
7	Wavemaker	Wavemakers	381,228
8	Lights	Led lights	609,964
9	SALT	Sea Salt	1,700,000
10	Return Pump	Return Pumps and Reactor	304,982
11	Supplements	Carbon, Medicine and Phosban	152,491
12	Bio Media	Bio media	152,491
13	UV	Uv and Ozonizer Sterilization	381,228
14	AquaScaping	Artificial Aquascaping	1,524,911
15	Chillers	Water chiller	609,964
16	Automation	Auto testing and Dosing Systems	560,000
		TOTAL ITEMS QUANTITY	20,694,246
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

TUNNEL MARINE ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size L 213 " x W 1433" and L 472 " x W 128"	197,500,000
		Acrylic thickness 80mm and 180mm	
		Water volume 933900 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	6,000,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	2,500,000
4	Sand	Sand	4,709,373
5	Sand Filter	Sand Filter	10,596,089
6	Skimmer	Proteins Skimmer	18,071,000
7	Wavemaker	Wavemakers	11,773,432
8	Lights	Led lights	17,500,000
9	SALT	Sea Salt	45,000,000
10	Return Pump	Return Pumps and Reactor	9,418,745
11	Supplements	Carbon, Medicine and Phosban	5,000,000
12	Bio Media	Bio media	5,000,000
13	UV	Uv and Ozonizer Sterilization	11,773,432
14	AquaScaping	Artificial Aquascaping	47,093,727
15	Chillers	Water chiller	18,837,491
16	Automation	Auto testing and Dosing Systems	2,250,000
		TOTAL ITEMS QUANTITY	413,023,287
Note: Electric Work, Civil Work Not Included			
This Quotation is valid till one week			
This Quotation not included any Livestock			

JELLYFISH CYLINDER ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (Dia 39" X height 78")	11,035,000
		Acrylic thickness 30mm	
		Water volume 2400 Liters	
		Quantity 5	
2	Sump System	Sump Filtration System	100,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	30,256
4	Sand	Sand	60,512
5	Sand Filter	Sand Filter	136,153
6	Skimmer	Proteins Skimmer	232,200
7	Wavemaker	Wavemakers	151,281
8	Lights	Led lights	242,049
9	SALT	Sea Salt	700,000
10	Return Pump	Return Pumps and Reactor	121,025
11	Supplements	Carbon, Medicine and Phosban	60,512
12	Bio Media	Bio media	60,512
13	UV	Uv and Ozonizer Sterilization	151,281
14	AquaScaping	Artificial Aquascaping	605,123
15	Chillers	Water chiller	242,000
16	Automation	Auto testing and Dosing Systems	500,000
		TOTAL ITEMS QUANTITY	14,427,905
Note: Electric Work, Civil Work Not Included			
This Quotation is valid till one week			
This Quotation not included any Livestock			

JELLYFISH ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (L 196 " x W 39" x Height 78")	37,160,000
		Acrylic thickness 80 mm	
		Water volume 10000 Liters	
		Quantity 2	
2	Sump System	Sump Filtration System	126,067
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	50,427
4	Sand	Sand	100,854
5	Sand Filter	Sand Filter	226,921
6	Skimmer	Proteins Skimmer	387,001
7	Wavemaker	Wavemakers	252,135
8	Lights	Led lights	403,416
9	SALT	Sea Salt	952,617
10	Return Pump	Return Pumps and Reactor	201,708
11	Supplements	Carbon, Medicine and Phosban	100,854
12	Bio Media	Bio media	100,854
13	UV	Uv and Ozonizer Sterilization	252,135
14	AquaScaping	Artificial Aquascaping	1,008,539
15	Chillers	Water chiller	382,172
16	Automation	Auto testing and Dosing Systems	250,000
		TOTAL ITEMS QUANTITY	41,955,699
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

CURVE MARINE ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size L 260 " x W 70 " x Height	11,617,000
		Acrylic thickness 80mm	
		Water volume 27000 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	200,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	68,076
4	Sand	Sand	136,153
5	Sand Filter	Sand Filter	306,344
6	Skimmer	Proteins Skimmer	522,451
7	Wavemaker	Wavemakers	340,382
8	Lights	Led lights	544,611
9	SALT	Sea Salt	1,286,033
10	Return Pump	Return Pumps and Reactor	272,306
11	Supplements	Carbon, Medicine and Phosban	136,153
12	Bio Media	Bio media	136,153
13	UV	Uv and Ozonizer Sterilization	340,382
14	AquaScaping	Artificial Aquascaping	1,361,528
15	Chillers	Water chiller	544,611
16	Automation	Auto testing and Dosing Systems	250,000
		TOTAL ITEMS QUANTITY	18,062,182
Note: Electric Work, Civil Work Not Included			
This Quotation is valid till one week			
This Quotation not included any Livestock			

CURVE MARINE ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size (Outer Dia 118" X Inner Dia 33" X Outer height 25", inner height 13")	6,700,000
		Acrylic thickness 50mm	
		Water volume 4590 Liters	
		Quantity 1	
2	Sump System	Sump Filtration System	200,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	11,573
4	Sand	Sand	23,146
5	Sand Filter	Sand Filter	52,078
6	Skimmer	Proteins Skimmer	88,817
7	Wavemaker	Wavemakers	57,865
8	Lights	Led lights	92,584
9	SALT	Sea Salt	218,626
10	Return Pump	Return Pumps and Reactor	46,292
11	Supplements	Carbon, Medicine and Phosban	23,146
12	Bio Media	Bio media	23,146
13	UV	Uv and Ozonizer Sterilization	57,865
14	AquaScaping	Artificial Aquascaping	231,460
15	Chillers	Water chiller	92,584
16	Automation	Auto testing and Dosing Systems	90,000
		TOTAL ITEMS QUANTITY	8,009,181
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

MARINE GLASS AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size Length 39" X Depth 19" x Height 39"	8,800,000
		Glass tank	
		Water volume 500 Liters	
		11	
2	Sump System	Sump Filtration System	40,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	300,000
4	Sand	Sand	300,000
5	Sand Filter	Sand Filter	62,403
6	Skimmer	Proteins Skimmer	200,000
7	Wavemaker	Wavemakers	69,337
8	Lights	Led lights	110,939
9	SALT	Sea Salt	261,970
10	Return Pump	Return Pumps and Reactor	55,470
11	Supplements	Carbon, Medicine and Phosban	27,735
12	Bio Media	Bio media	27,735
13	UV	Uv and Ozonizer Sterilization	69,337
14	AquaScaping	Artificial Aquascaping	277,348
15	Chillers	Water chiller	110,000
16	Automation	Auto testing and Dosing Systems	1,100,000
		TOTAL ITEMS QUANTITY	11,812,274
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

MARINE GLASS AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size Length 72" X Depth 48" x Height 39"	3,630,000
		Glass tank	
		Water volume 2300 Liters	
		3	
2	Sump System	Sump Filtration System	50,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	500,000
4	Sand	Sand	500,000
5	Sand Filter	Sand Filter	150,000
6	Skimmer	Proteins Skimmer	100,000
7	Wavemaker	Wavemakers	100,000
8	Lights	Led lights	250,000
9	SALT	Sea Salt	500,000
10	Return Pump	Return Pumps and Reactor	200,000
11	Supplements	Carbon, Medicine and Phosban	100,000
12	Bio Media	Bio media	100,000
13	UV	Uv and Ozonizer Sterilization	100,000
14	AquaScaping	Artificial Aquascaping	1,000,000
15	Chillers	Water chiller	140,000
16	Automation	Auto testing and Dosing Systems	500,000
		TOTAL ITEMS QUANTITY	7,920,000
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

MARINE CURVED ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank	11,300,000
		Acrylic 60mm	
		Water volume 6500 Liters	
		1	
2	Sump System	Sump Filtration System	50,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	100,000
4	Sand	Sand	100,000
5	Sand Filter	Sand Filter	100,000
6	Skimmer	Proteins Skimmer	125,000
7	Wavemaker	Wavemakers	100,000
8	Lights	Led lights	1,350,000
9	SALT	Sea Salt	309,601
10	Return Pump	Return Pumps and Reactor	65,555
11	Supplements	Carbon, Medicine and Phosban	32,778
12	Bio Media	Bio media	32,778
13	UV	Uv and Ozonizer Sterilization	81,944
14	AquaScaping	Artificial Aquascaping	327,775
15	Chillers	Water chiller	131,110
16	Automation	Auto testing and Dosing Systems	300,000
		TOTAL ITEMS QUANTITY	14,506,540
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

MARINE CURVED ACRYLIC AQUARIUM QUOTATION

<u>Sr#</u>	<u>Name</u>	<u>Item Name</u>	<u>Amount (PKR)</u>
1	Tank	Tank Size Length 72" X Depth 48" x Height 39"	4,840,000
		Glass tank	
		Water volume 2300 Liters	
		3	
2	Sump System	Sump Filtration System	100,000
		80 Schedule PVC Plumbing	
3	Rocks	Live Rocks	400,000
4	Sand	Sand	400,000
5	Sand Filter	Sand Filter	250,000
6	Skimmer	Proteins Skimmer	450,000
7	Wavemaker	Wavemakers	450,000
8	Lights	Led lights	450,000
9	SALT	Sea Salt	600,000
10	Return Pump	Return Pumps and Reactor	200,000
11	Supplements	Carbon, Medicine and Phosban	100,000
12	Bio Media	Bio media	100,000
13	UV	Uv and Ozonizer Sterilization	250,000
14	AquaScaping	Artificial Aquascaping	600,000
15	Chillers	Water chiller	150,000
16	Automation	Auto testing and Dosing Systems	400,000
		TOTAL ITEMS QUANTITY	9,740,000
Note: Electric Work, Civil Work Not Included This Quotation is valid till one week This Quotation not included any Livestock			

HIPPO ENCLAVE QUOTATION

[illegible]

EXTERNAL ELECTRIFICATION WORKS-AQUARIUM AT SAFARI PARK, LAHORE

PROPOSED 11KV FEEDER COST OF MATERIAL FOR HT LINE (Overhead)

DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (Rs)
CONDUCTOR (HT) DOG	MTR	1,500	413	619,500
PC POLE (HT) 45'	NO	3	108,254	324,762
STEEL CROSS ARM (WITH BRACES)	NO	20	10,068	201,360
11KV DISC INSULATOR	NO	20	4,019	80,380
DEAD END CLAMP (DOG)	NO	20	537	10,740
ANCHOR SHAKLE	NO	20	230	4,600
DOUBLE ARMING BOLT	NO	20	455	9,100
EYE – NUT	NO	20	173	3,460
P.G CONNECTOR (DOG)	NO	20	703	14,060
11KV PIN TYPE INSULATOR	NO	20	1,177	23,540
11 KV INSULATOR PIN FOR STEEL X ARM	NO	40	997	39,880
STRUT STAY	NO	10	100	1,000
STAY ROD	NO	10	63	630
STAY WIRE	KG	4	358	1,432
EARTH ROD	NO	20	1,500	30,000
EARTH WIRE	KG	40	358	14,320
NUT & BOLTS	L/S	1	15,000	15,000
SUB TOTAL				1,393,764
12% STORE CHARGES OF TOTAL COST OF MATERIAL				167,252
SUB TOTAL WITH 12% STORE CHARGES				1,561,016
10% INSTALLATION CHARGES OF TOTAL COST OF MATERIAL				156,102
GRAND TOTAL				1,717,117
CIVIL WORK				
ERRECTION OF HT PC POLE (45')	JOB	3	10,000	30,000
ERRECTION OF STRUT STAY	JOB	10	5,000	50,000
FIXING OF STAY ROD HT	JOB	10	800	8,000
TOTAL				88,000

**BOO/COST ESTIMATE FOR 400 KVA DISTRIBUTION TRANSFORMER/
SUB STATION ON DOUBLE POLE (11KV FEEDER # 1)**

DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (RS)
TRANSFORMER 400 KVA	NO	2	4,000,000	8,000,000
LT PC POLE FOR T/F PLATFORM	NO	2	55,000	110,000
STEEL CROSS ARM (WITH BRACES)	NO	2	10,068	20,136
PIN INSULATORS	NO	6	1,177	7,062
PIN FOR INSULATOR	NO	6	997	5,982

Annexure08 - Detail of EPC Component

STEEL X-ARMS FOR D-FITTING	NO	2	8,000	16,000
DROP OUT CUT OUT	SET	6	4,878	29,268
TRANSFORMER PLATFORM (DOUBLE POLE)	NO	2	30,240	60,480
RABBIT CONDUCTOR FOR JUMPRING	MTR	80	256	20,480
D-SHACKLE	NO	16	409	6,544
SPOOL INSULATOR	NO	16	318	5,088
EARTH ROD	NO	4	1,500	6,000
EARTH WIRE	KG	20	358	7,160
NUT & BOLTS	L/S	1	15,000	15,000
SUB TOTAL				8,309,200
12% STORE CHARGES OF TOTAL COST OF MATERIAL				997,104
SUB TOTAL WITH 12% STORE CHARGES				9,306,304
10% INSTALLATION CHARGES OF TOTAL COST OF MATERIAL				930,630
GRAND TOTAL				10,236,934
CIVIL WORK				
ERRECTION OF LT PC POLE	JOB	2	4,000	8,000
EARTHING OF LT PC POLES	JOB	2	1,000	2,000
EARTHING TRANSFORMERS	JOB	4	1,000	4,000
TOTAL				14,000
Price of Demand Notice Including Grid and Panel, Feeder Connectiona and WAPDA Charges				6,000,000
GRAND TOTAL OF ALL ABOVE ITEMS				12,056,052
GRAND TOTAL				170 M

INTERNAL ELECTRIFICATION

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
		INTERNAL ELECTRICAL WORKS FOR SUBSTATION				
1		Pvc Pipe				
		Supply and erection of PVC pipe for wiring recessed in walls, floors, roofs including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
	CH-24-3-iii	25 mm dia	Meter	200	446	89,110
2		Pvc Pipe				
	CH-24/8/i	Supply and erection of PVC pipe for surface wiring (main and sub-main) including clamps, inspection boxes, pull boxes bends etc., complete with all specials 50mm dia	Meter	50	559	27,963
3		HDPE Pipe				
	CH-23/42/d/1	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe, Beta/Dadex/Popular/ ILL or approved equivalent manufacturer, including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects. d) PN -12.5 (SDR-13.6) 1) 25mm	Meter	50	140	7,023
4		Single Core Cable				
	CH-24-11-i, iii, iv & v	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):-				
a		3/0.74 mm (3/0.029")	Meter	300	120	35,955
b		7/0.74 mm (7/0.029")	Meter	300	173	51,900
c		7/0.91 mm (7/0.036")	Meter	300	240	71,880

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
d		7/1.12 mm (7/0.044")	Meter	300	333	100,005
5		Three Core Cable				
	CH-24/13-b-vi	Supply and erection of PVC insulated, PVC sheathed copper conductor cables for service connection, in prelaaid pipe/G.I. wire/trenches, etc. (rate for cable only):- b) Three core, 600/1000 volt cable 7/1.63 mm (7/0.064")	Meter	300	2,311	693,300
6		Four Core Cable				
	CH-24-13-d	Supply and erection of PVC insulated, PVC sheathed copper conductor cables for service connection, in prelaaid pipe/G.I. wire/trenches, etc. (rate for cable only):- ARMOURED CABLE				
b	vi	150 mm sq (19/0.064)	Meter	300	6,982	2,094,540
c	ix	95 mm sq	Meter	300	18,021	5,406,330
7		Switches				
	CH-24/108-b	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches/sockets/dimmer made of Hi-Life / Bush / Schneider / Clipsal or approved equivalent manufacturer, screws complete as approved and directed by the Engineer charge.				
	i	4 GANG 1 WAY SWITCH/PLATE	Each	4	971	3,885
8		Switch Sockets				
	CH-24/108-a-viii	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches/sockets/dimmer made of Hi-Life / Bush / Schneider / Clipsal or approved equivalent manufacturer, screws complete as approved and directed by the Engineer charge. 3 pin Power Plug 16 Amp	Each	8	915	7,317
9		Distribution Board (Light& Power)				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	CH-24-93-a-i	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surfacemounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Natural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (i) 20~60A	Cft	8.00	24,467	195,733
a		DB SS Size: 800 x 650 x 200 mm				
		MCCB Breakers (Incoming)				
	CH-24-90-a-v	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A /SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND or approved equivalent manufacturer (with fixed Thermal-Magnetic Trip) in prelaiddBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		32 TP MCCB 25KA	Each	4	19,861	79,444
		MCB Breakers (Outgoing)				
	CH-24-89-a-iii	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND or approved equivalent manufacturer in prelaiddBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		16 Amps SP 10KA	Each	16	1,455	23,282

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
		10 Amps SP 10KA	Each	16	1,455	23,282
10		FIRE ALARM SYSTEM				
a		FACP				
	CH-24/169-i	Supply, installation and commissioning of wired/wireless Addressable Micro processor based Fire Alarm Control Panel (FACP) capable of PC interface with window conforming to EN-54, consisting of specified loop circuits having 240 devices per loop, indicating circuits, built in power supply with back up batteries, alarm and trouble indication, silence alarm and reset system, general alarm and reset system, general alarm facility. Made of Eurotech Fire UK, Notifire USA, Bosch USA complete in all respect as approved and directed by Engineer Incharge. 1 loop panel	Each	2	294,235	588,471
b		MULTI DETECTOR				
	CH-24/168	Supply, installation and connections of Addressable Multi Detectors incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit, adjustable via software between 0-90 seconds and have built in short circuit isolators on both inputs. including cost of all other accessories or equivalent as approved and directed by the Engineer Incharge.	Each	10	11,033	110,326
c		MANUAL CALL POINT				
	CH-24/164-i	Supply, Installation and commissioining with Addressable Break Glass unit,(Manual Call Point) with key type EN-54 having a built in short circuit isolator and microprocessor to ensurea responsetime of max. 1 second,having an indication LED flash after pressing the button to acknowledge the activation and a key operation facility for testing purposes. made of Honeywell/ Bosch/ Eaton (UK) or as approved and directed by the Engineer Incharge.	Each	10	18,587	185,869
d		SOUNDER & FLASHER				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	CH-24/165-ii	Supply, installation and commissioning of Addressable Type Indoor Loop Powered electronic Sounder/Flasher/Bell EN-54 with minimum sound output 100dB at 1 meter with frequencies of variety of sounds as required and shall be loop wired and loop signaled, built in short circuit isolator, configured via software. made of Honeywell/ Bosch/ Eaton (UK), or equivalent as approved and directed by the Engineer Incharge. With Flasher	Each	10	25,923	259,230
e		Fire Alarm Cable				
	CH-24/163-i	Supply, Installation and commissioning of wiring with specified FireResistant Shielded Cable (Fire Rating for 2 hours) of required size from respective DB to Fire Alarm FACP (Fire Alarm Control Panel) in prelaidd conduit/duct. MakePony / Belden/ Covican (Italy) or equivalent as approved and directed by the Engineer Incharge. i) 2C,1.5 mm sq	Meter	####	428	427,500
11	CH-24/105-b-i	Providing and fixing Copper Winded Exhaust Fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. (Steel body). 12" dia	Each	6	5,868	35,209
12		Cable Tray				
	CH-24-100-b	Providing and fixing specified deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung on painted brackets of MS angle iron of 1"x1"x1/8" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. i) 4" x 3"	Meter	300	1,731	519,270
SCHEDULE ITEMS TOTAL COST						11,036,822
13		WAPDA METERING PANEL				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	NS	Vacuum Circuit Breaker (VCB), HT 11 KV, WAPDA Metering Panel floor mounting, 400/630 A, rating 25 KA, 17.5 KV complete with selector switches, indicating lamps, spring Charging motor 220 V AC, 50ms DC closing coil 110 V DC, 50ms DC Trip Coil 110 V, CT, PT, Earth fault, over current, short circuit, current digital relay, frequency meter, amp meter, volt meter, capacitor trip unit, MCB 06 A, SP, charging handle, push button, mounted in sheet steel cubicle, factory assembled duly painted, single panel unit complete with energy meter, MDI & KVARH complete in all respect.	Each	1	7,113,000	7,113,000
14		Consumer Panel				
	NS	Vacuum Circuit Breaker (VCB), HT 11 KV, Consumer Protection Panel floor mounting, 400/630 A, rating 25 KA, 17.5 KV complete with selector switches, indicating lamps, spring Charging motor 220 V AC, 50ms DC closing coil 110 V DC, 50ms DC Trip Coil 110 V, CT, PT, Earth fault, over current, short circuit, current digital relay, frequency meter, amp meter, volt meter, capacitor trip unit, MCB 06 A, SP, charging handle, push button, mounted in sheet steel cubicle, factory assembled duly painted, single panel unit complete with energy meter, MDI & KVARH complete in all respect.	Each	1	7,113,000	7,113,000
15		Light Fitting Fixtures				
	NS	Supply , installation, connecting and testing of lighting fixtures surface/Ceiling mounted or to be fixed in the false ceiling, complete with ceiling rose, lamp holders, Light, Earthing terminals and internal wiring,conector, including hangers brackets & necessary hardware such as screws, anchors, etc. complete in all respect approved type and to entire satisfaction of Consultants/Client. Manufactured by Phillips, Thorn, NVC or equivalent				
a		double baton 40W	Each	20	8,400	168,000

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
b		Surface/Ceiling mounted combination exit light with red/green color non-maintained including 3 hours battery backup, injecton-molded thermoplastic ABS housing, AC Power: 7.5 W, Lead-acid battery(6V4.5AH), Lumens: > 8cd/m². Complete in all respects.	Each	6	35,000	210,000
c		Surface mounted flood light 100W , IP-65 rating, Lumens rating 10,000, Voltage 220-240V, including SMD LED Chip, Wide lighting angle : 110 degree, Color rendering index <70, power factor 0.9, Protection class IEC safety class I. Complete in all respect.	Each	10	60,661	606,614
NON-SCHEDULE ITEMS TOTAL COST						15,210,614
TOTAL COST						26,247,436

INTERNAL NETWORK

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Pvc Pipe				
	Supply and erection of PVC pipe for wiring on surface of rectangular shape etc., complete with all respect (as per site requirement). Make Beta, Dadex or equivalent				
a	25 mm dia	Meter	1,500		-
b	32 mm dia	Meter	1,500		-
c	50 mm dia	Meter	500		-
2	Single Core Cable				
	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only), (as per site requirement)				
a	7/0.029" (2.5mm ²)	Meter	1,000		-
b	7/0.036" (4mm ²)	Meter	1,300		-
3	Twin Core Cable				
a	7/0.044" (6mm ²)	Meter	1,500		-
4	Four Core Cable (For AC and DBs)				
	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only), (as per site requirement)				
a	10mm ²	Meter	200		-
b	16mm ²	Meter	300		-
c	25mm ²	Meter	150		-
5	Supply Cable				

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	Supply and laying of aluminum conductor cables armoured for service connection including cost of service connection at transformer end and LT box including cost of cable glands, lugs, termination, excavation and backfilling of trench, thrust boring of 40 meters for various road cross section, warning tape, complete in all respect (as per site requirement)				
	4C 35mm ² XLPE/SWA/PVC/AL	Meter	700		-
6	HVAC System				
	Supply, installation, testing and commissioning of HVAC System having 4 way air swing, 100% pure copper, Can Operate at 150, Wi-Fi enabled, fireproof control box for self-care, Make: Gree, Daikin, Haier, Orient or equivalent. Complete in all respect i.e.(outdoor and indoor) along with standard piping & wiring of 10 feet.				
	1 Ton	Each	6		-
	2 Ton	Each	4		-
7	Switches				
	Supply, installation, testing and commissioning of following switches suitable for the following sizes, for recessed wiring, including regulators, switches, plugs, etc. Complete in all respect				
a	6 GANG 1 WAY SWI/PLATE, Clipsal, Legrand or equivalent	Each	8		-
b	4 GANG 1 WAY SWI/PLATE, Clipsal, Legrand or equivalent	Each	4		-
c	3 GANG 1 WAY SWI/PLATE, Clipsal, Legrand or equivalent	Each	2		-
8	Universal Switch Sockets (Legrand, Clipsal or equivalent)				
a	3Pin 13Amp Power Plug (Rooms)	Each	21		-
b	3Pin 16Amp Power Plug	Each	47		-
c	3Pin 13Amp Power Plug (Chillers, Quarantine room, Aquariums)	Each	328		-

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
10	Main Distribution Board				
	P/F Wall Mounted Main Distribution Board made with 14 SWG Sheet, Powder coated Paint, i/c the cost of Lock, Panel Light, 2 x Exhaust, Indication lights, Thimble, Copper Bus Bars, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls, brass cable glands, crimped cable lugs, main and connection bus bars current density shall not be less than 1000Amp/Sq. Inch. Complete in all respect as approved and directed by the Engineer In charge. All material shall be manufactured by any of the WAPDA approved M2 category manufacturers, which are direct OEM Authorized Channel Partners of MCCBs/MCBs Circuit breaker brands ABB / Mitsubishi i.e. Tariq Electric or PEL. Shop Drawings shall be submitted to consultant for final approval before initialization of the fabrication process.	Each	1		-
	MDB Aquarium House				
	MCCB Breakers (Incoming)				
	150 Amp TP MCCB 36KA				
	SPD 50 KA Type 1 Class 1				
	22.5 (7.5 x 3) Kvar Automatic Power Factor Improvement Plant Including all Accessories.				
	MCCB Breakers (Outgoing)				
	3 x 25 Amp TP MCCB 25 KA				
	1 x 16 Amp TP MCCB 25 KA				
	4 x 32 Amp TP MCCB 25 KA				
	1 x 63 Amp TP MCCB 25 KA				
	3 x 80 Amp TP MCCB 25 KA				
11	Distribution Board				
	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet, Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing and Digital Ammeter. Make: ABB / Mitsubishi . WAPDA Approved manufacturers i.e. Tariq Electric or PEL Size: 95 x 150 x 200 mm				
a	DB Admin, Wash (Light & Power)	Each	1		

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	32 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)				-
	5 x 10 Amps SP 6KA				
b	DB Elec, Quarantine (Light & Power)				
	63 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	1		-
	10 x 16 Amps SP 10KA (3C)				
	5 x 10 Amps SP 6KA				
c	DB Filter, Wash (Light & Power)				
	32 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	1		-
	4 x 16 Amps SP 10KA				
	5 x 10 Amps SP 6KA				
d	DB (Light & Power)				
	80 Amp TP MCCB 18 KA (Incoming)				
	SPD 20 KA Type 2 Class 2				
	MCB Breakers (Outgoing)	Each	1		-
	14 x 16 Amps SP 10KA (11 C & 4 W)				
	3 x 10 Amps SP 6KA				
e	DB Outdoor (Light & Power)				
	20 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	2		-
	4 x 16 Amps SP 10KA				
	3 x 10 Amps SP 6KA				
f	DB FW Aquariums (Power)				
	SPD 20 KA Type 2 Class 2				
	25 Amp TP MCCB 18 KA (Incoming)	Each	1		-
	MCB Breakers (Outgoing)				

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	6 x 10 Amps SP 10KA				
	3 x 10 Amp TP C/O Switches including line up terminals				
g	DB MW1-3 Aquariums (Power)				
	SPD 20 KA Type 2 Class 2				
	25 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	1		-
	6 x 10 Amps SP 10KA				
	3 x 10 Amp TP C/O Switches including line up terminals				
h	DB MW4-8 Aquariums (Power)				
	SPD 20 KA Type 2 Class 2				
	25 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	1		-
	10 x 10 Amps SP 10KA				
	6 x 10 Amp TP C/O Switches including line up terminals				
i	DB AM-JF Aquariums (Power)				
	SPD 20 KA Type 2 Class 2				
	16 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	1		-
	4 x 10 Amps SP 10KA				
	2 x 10 Amp TP C/O Switches including line up terminals				
j	DB MF-CR-Shark Aquariums (Power)				
	SPD 20 KA Type 2 Class 2				
	32 Amp TP MCCB 18 KA (Incoming)				
	MCB Breakers (Outgoing)	Each	1		-
	12 x 10 Amps SP 10KA				
	9 x 10 Amp TP C/O Switches including line up terminals				
12	Multi Socket Board				

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
a	Supply and installation of extension multi outlet electrical switch board comprises of (9 Critical) made up of plastic material excluding the cost of breakers	Each	16		-
b	Supply and installation of extension multi outlet electrical switch board comprises of (6 Wapda+Smart) made up of plastic material excluding the cost of breakers	Each	38		-
13	Ceiling Fan				
	Providing and fixing Copper winded ceiling fan made of Pak/Younas/G.F.C or NEECA approved equivalent i/c the cost of fan hook (placed at the time of casting of slab), ceiling rose, necessary cable and hardware for connection as approved and directed by Engineer Incharge. 56" dia	Each	2		-
14	Bracket Fan				
	Providing and fixing Copper winded wall bracket fan made of Pak/Younas/G.F.C or NEECA approved equivalent i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer 18" Sweep dia	Each	8		-
15	FIRE ALARM SYSTEM				
a	FACP				
	Supply, installation and commissioning of wired/wireless Addressable Fire Alarm Control Panel (FACP) shall be self-powered with built in 12 V battery for 24 hours backup with charging unit. It can be programmed using windows based software for peripheral devices like display unit, printers and etc. Make: Notifier, Bosch or Pollon Alfa 2 loop panel	Each	1		-
b	SMOKE DETECTOR				
	Supply, installation and commissioning of Addressable Photoelectric Smoke detector with soft addressing, programmable parameters, low current consumption, automatic drift compensation, built-in short circuit isolator and approved from EN54-3 standard. Make: Notifier, Bosch or Pollon Alfa	Each	4		-
c	MULTI DETECTOR				

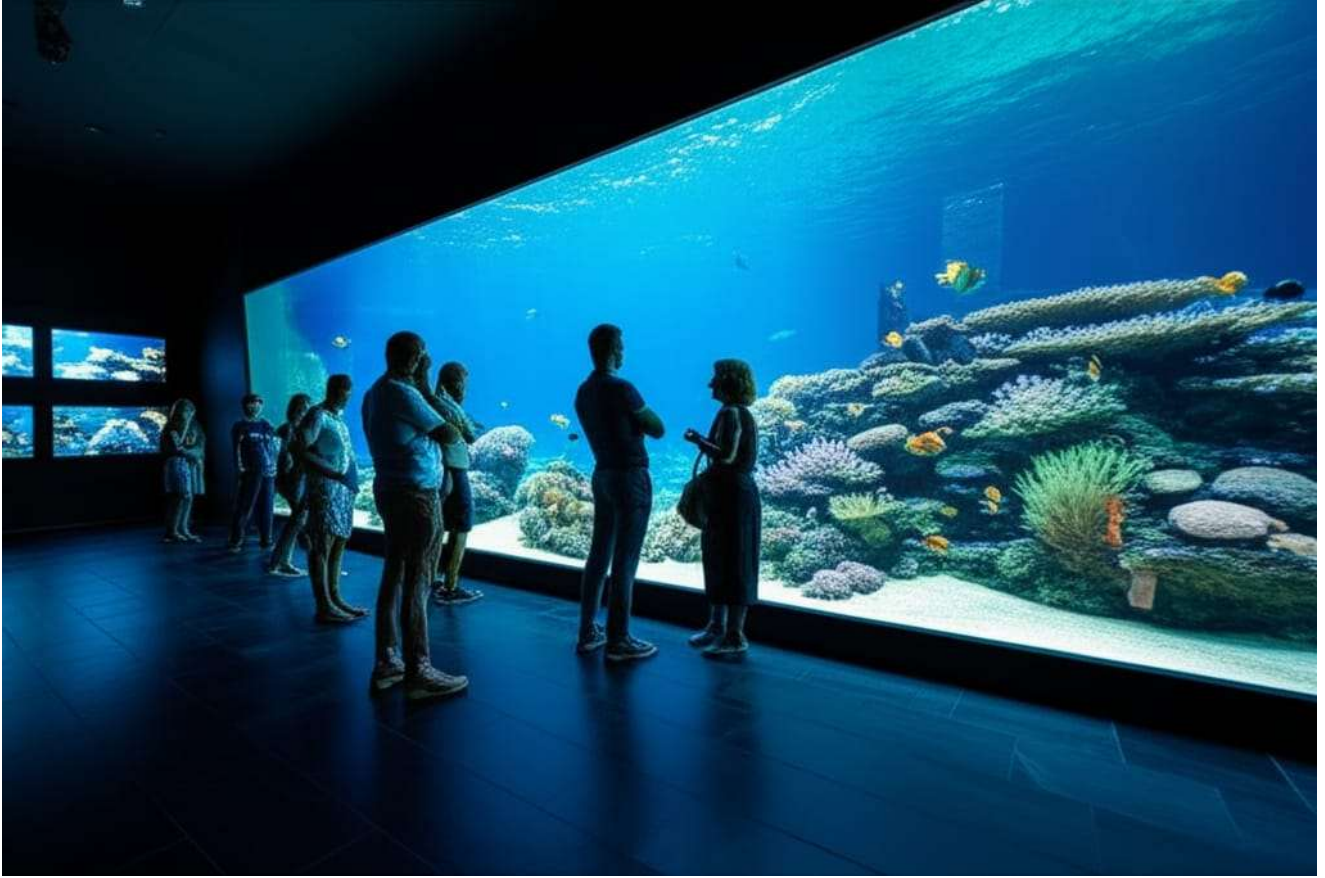
Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	Supply, installation and commissioning of Addressable Multi-sensor with soft addressing, programmable parameters, low current consumption, automatic drift compensation, built-in short circuit isolator and approved from EN54-3 standard. Make: Notifier, Bosch or Pollon Alfa	Each	1		-
d	MANUAL CALL POINT				
	Supply, Installation and commissioning with Addressable resettable manual call point with flush mounting and LED indication on front side, wall mounting with assembling frame, soft addressing, low current consumption, built-in short circuit isolator and approved shall be from EN54-11 (type B) Standard. Make: Notifier, Bosch or Pollon Alfa	Each	2		-
e	SOUNDER & FLASHER				
	Supply, installation and commissioning of Addressable Type Indoor Loop Powered electronic Sounder with soft addressing, 3 sound patterns, 3 power options (24V DC, 9V DC and 220V), sound level : 85 Db, built-in short circuit isolator and will be approved from EN54-3 and sounder is IP protection rated to IP21. Make: Notifier, Bosch or Pollon Alfa	Each	2		-
f	Fire Alarm Cable				
	Supply, Installation and commissioning of wiring with specified Fire Resistant Shielded Cable (Fire Rating for 2 hours) of required size from respective DB to Fire Alarm FACP (Fire Alarm Control Panel) in prelaidd conduit/duct. Make: 2M Kabalo, Prysmian, Fast Cables or equivalent 2C,1.5mm2 (as per site requirement)	Meter	500		-
16	Light Fitting Fixtures				
	Supply , installation, connecting and testing of fully imported lighting fixtures surface/Ceiling mounted or to be fixed in the false ceiling, complete with ceiling rose, lamp holders, Light, Earthing terminals and internal wiring, connector, including hangers brackets & necessary hardware such as screws, anchors, etc. Complete in all respect approved type and to entire satisfaction of Consultants/Client. Manufactured by Phillips, Thorn, NVC or equivalent				

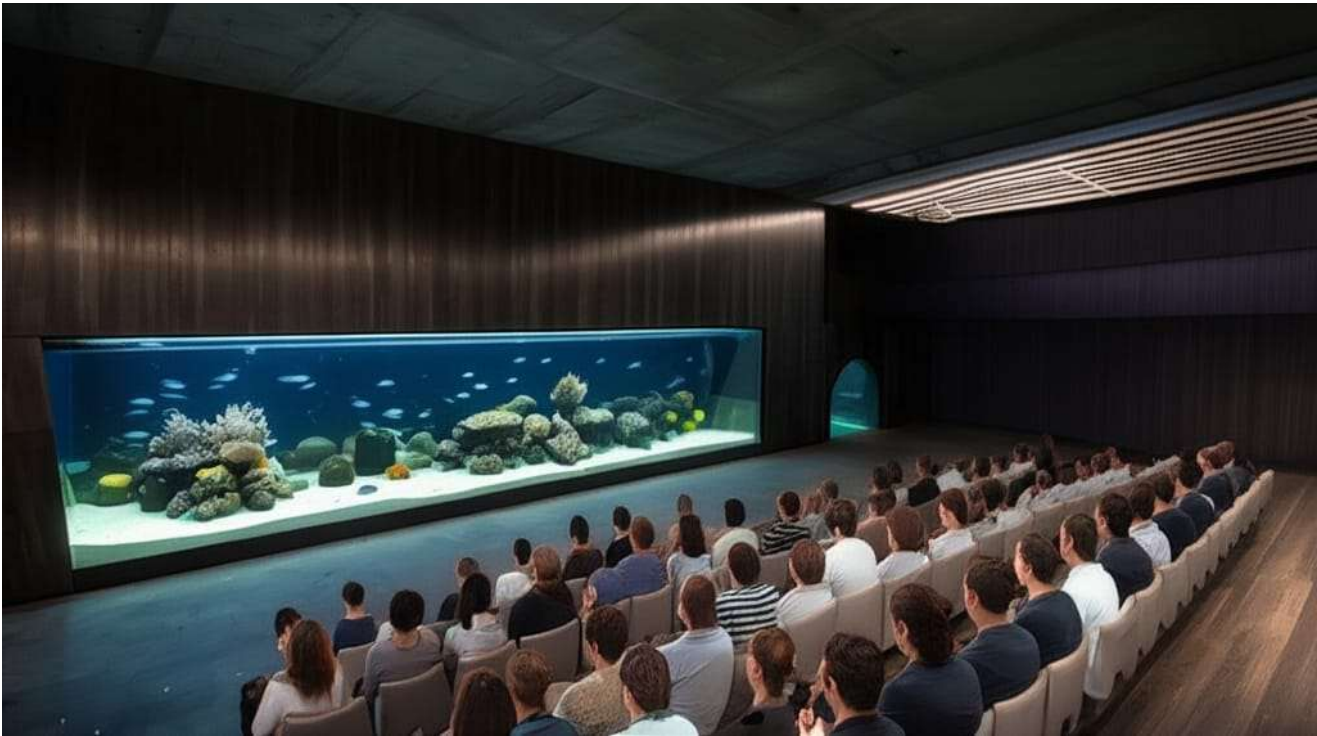
Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
a	Surface/Ceiling mounted emergency exit light non-maintained 3 watt LEDs including 3 hours battery backup and exit pictogram, complete in all respects.	Each	8		-
b	Surface/Ceiling mounted LED Down Light 9 W, 1215 Lumens	Each	110		-
c	LED Down Light, 8 watts, 220/240 volts, 750 Lumens	Each	34		-
d	50 W Flood Lights, IP65 including 34hilips driver	Each	10		-
17	Industrial Socket (Chiller – Shark)				
	Supply and installation of One three pin socket outlet, 20 A Industrial socket, controlled by one switch. Make: Clipsal, Legrand or equivalent	Each	2		-
18	Earthing System				
	Supply, Installation, testing and commissioning of Maintenance free Bore type, earthing as per WAPDA standards and specifications including 2 inch dia GI perforated pipe up to slush below ground and connected to ¾ inch dia 10 ft. Long Cu rod. The rod shall be dipped in mixture of NH4Cl, CaCO3 and Charcoal in the pipe. Including earth conductivity material : Furse ABB Based , Weight Bag 20 kg. Provide a GI Tee and Cap on the top of the pipe to take the stranded conductor out of the manhole for other connections. Pit with CI/PVC Cover size 2x2 feet included in this job. Earthing set complete with accessories like earth test link bar, nuts, bolts and earth connection strips, including cost of welding and other civil works complete in all respect. To achieve Earthing value of less than 1 Ohms as per Drawings/ Data approval by Consultant/ Client. The payment shall be made as per actual work done.	Job	4		-
19	Generator Set				
	Supply, installation, testing & commissioning of Diesel generating set 100Kva (Prime rating) at 50 °C, 415 Volts three phase four wire, 50 Hz complete including Sound Proof Canopy Anti-Vibration pad, Auxiliary & Control Cables, Control panel, Earthing sets, AMF/ATS panel with MOR complete in all respects as per consultants approval. The set manufacturers are to be Perkins, Cummins, FPT or equivalent, manufactured in Europe/USA/Japan	Set	2		-

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
20	UPS System				
	200KW/18KW 3 phase in and out, with 4 hours backup time at 10KW ,On-line Double Conversion Low Frequency Industrial Grade UPS , output pf 0.9, tower type, efficiency up to 90%, Output Voltage THD: < 1% (Linear Full Load, < 3% (Non Linear Full Load), Battery Type: Sealed, Non-spillage, Maintenance-free lead-acid battery, Battery Bank Volts: 336VDC, Charging Methods: DSP Controlled Charger: Equalized/Pulse Charge, Float Charge, Intelligent Battery Management, Charging Current: Can be set from the front Screen, Load Crest Factor: 3:1, Noise: < 5060Db, Control Panel: 5-7inch LCD color touch screen + LED working indicators including Input/Output Voltage, Frequency, Current, Power, Load Capacity, Serial Number, Operational Mode, Discharge Time, History Logs. All settings including can be done on the front panel, including battery voltage, input and output voltage, frequency, parallel setting and etc. Make: APC or equivalent	Each	1		-
21	CCTV System				
a	Fixed Bullet Camera				
	Supply, installation, testing and commissioning of IP based Camera of 4 Mega Pixel. Sensor:1/2.7", 5.0 megapixel, progressive scan, CMOS Minimum Illumination:Support Easystar: Colour: 0.003 lux (F1.6, AGC ON) :0Lux with IR on Day/Night:IR-cut filter with auto switch (ICR) Shutter:Auto/Manual, 1~1/100000s Adjustment angle:Pan: 0° ~ 360° S/N:>56Db WDR:120Db Lens Type:2.8mm @F1.6 Iris:Fixed ,Field of View (H):112.9° Field of View (V):59.1°,IR Range:Up to 50m (164ft) IR range,Video Compression:Ultra 265,H.265, H.264, MJPEG,H.264 Code Profile:Baseline profile, Main profile, High profile,Frame Rate:Main Stream: 5MP (2880*1620), Max 25fps;4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps.Make Uniview, IDIS, Huawei	Each	10		-
b	Dome Camera				
	Supply, installation, testing and commissioning of IP based Camera of 4	Each	9		

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	Mega Pixel, Sensor should be ½.8”, 2.0-megapixel, progressive scan, Lens must be equal to 2.8 ~ 12mm@ F1.6CMOS Day/night functionality Smart IR, up to 30m (98ft) IR distance Lowlight surveillance 2D/3D DNR (Digital Noise Reduction). Ultra 265, H.264, MJPEG Triple streams ROI (Region of Interest) 9:16 corridor mod. IK10 vandal resistant IP67 3-Axis, Minimum Illumination: Color: 0.001Lux (F1.6, AGC ON) 0Lux with IR, Audio Compression G.7, Two-way audio Supported. Sampling Rate: 8khz, Audio I/O: Audio cable Input: impedance 35KΩ; amplitude 2V. Make Uniview, IDIS, Huawei				-
c	NVR with Hard drive				
	Supply installation, testing and commissioning of NVR 32 Channel IP Video Input:32-ch, Two-way Audio Input:1-ch, RCA Incoming bandwidth: 160Mbps Outgoing bandwidth:64Mbps Remote Users:128 Protocols: TCP/IP, P2P, UpnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, Rec Resolution: 8MP/5MP/4MP/3MP/1080p/960p/720p/960H/D1/2 CIF/CIF, Synchronous Playback:16-ch, Hard Disk: SATA:2 SATA interfaces, Capacity:Up to 8TB for each disk, People counting: People Flow Counting, Crowd Density Monitoring Network Interface: 2 RJ-45 10M/100M/1000M self-adaptive, Ethernet Interfaces USB Interface: Rear panel: 1 x USB2.0,1 x USB3.0 Front panel:1 x USB2.0, General: Power Supply: 12V DC, Power Consumption: ≤ 15W with HDD 8TB. Make: Uniview, Huawei, IDIS or equivalent	Each	1		-
d	POE Switch				
	Supply, Installation and Connection of 8 Ports PoE (Power Over Ethernet) data network switch specified ports x1000 Mbps PoE, Min.2x1Gbps SFP UPLINK ports, made of Ruijie, Cisco and Aruba UK. As per specifications complete in all respects.	Each	3		-
e	CAT-6				
	Supply, Installation, Testing & commissioning of wiring for camera with Cat-6 (UTP) of approved manufacturer in PVC conduits as per specifications and drawings. Make R&M, Molex and 3M	Meter	700		-
f	4-U Rack				

Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	Supply , installation of wall mounted CCTV Cabinet comprising of Powder Coated M.S frame, front glass & two side openings, 02 way fans for cooling, top & bottom entry, handle lock with 6 way PDU (Power Distribution Unit) with all necessary accessories/ materials, complete in all respects. Made of Digitus, Toten, APC or equivalent or as approved and directed by Engineer In charge.	Each	1		-
g	LED TV				
	Supply, installation, testing and commission of LCD screen of 55 inches, 4K LED TV. Make: Multynet, Sony, Samsung or equivalent	Each	1		-
22	SMD Screen				
	Supply, installation testing of 20’ x 10’ SMD screen for advertisement including the equipment i.e 12 ft pole, foundation power supplies and all accessories complete in all respect. Make: HikVision, or equivalent including all civil works	Set	1		-
TOTAL COST (PKR)					131.696















EPC COMPONENT

IMMERSIVE EXPERIENCE CENTRE

(Rs. in million)						
S. No.	Item	Detailed Description	Quantity	Unit	Unit Rate (PKR)	Total (PKR)
1	Indoor SMD Screen (P2.5 or P3)	Supply and installation of high-resolution Indoor LED SMD screens with pixel pitch of 2.5mm or 3mm, suitable for immersive visual experiences. Screens include full-color modules with minimum brightness of 1000 nits, aluminum die-cast cabinets, receiving and sending cards, power supply, and synchronous control system. System to be mounted on steel/aluminum framework, with wiring, connectors, and ventilation considerations.	1600	Sq. ft.	85,000	136,200,000
2	High-Brightness 4K Laser Projector – 20,000 Lumens	Supply, delivery, installation, and commissioning of a professional-grade 3-Chip DLP laser projector delivering true 4K resolution (3840×2400) via advanced pixel-shifting technology, with a minimum brightness of 20,000 ANSI lumens(center brightness ≥21,000 lumens). The projector shall incorporate a laser phosphor light source with a minimum lifespan of 20,000 hours, a dynamic contrast ratio of at least 25,000:1, hermetically sealed optics, and liquid cooling for continuous operation in immersive environments. Must support edge blending, geometric warping, and 360° installation, with multiple input options including HDMI, DisplayPort, and SDI, as well as expansion capability via modular input interface slots. The projector shall be supplied complete with an ultra-short throw or short-throw lens, professional mounting system, signal cabling, integration with the central AV control system, and	3	Nos	45,000,000	135,000,000

S. No.	Item	Detailed Description	Quantity	Unit	Unit Rate (PKR)	Total (PKR)
		on-site calibration for optimized immersive experience use.				
3	High-Performance 4K Ultra Short Throw Laser Projector – 7,000 Lumens	Supply, delivery, installation, and commissioning of a professional-grade laser projector with a minimum native or enhanced 4K resolution (3840×2160), delivering a brightness of not less than 7,000 ANSI lumens. The projector shall be of ultra short throw or short throw design with a throw ratio of 0.25:1 or less, enabling large-scale projection from minimal distance without shadow interference. Light source to be laser phosphor with a lifespan of at least 20,000 hours in normal mode. Unit shall feature integrated edge blending and geometric correction (warping) for seamless multi-projector setups, with a minimum contrast ratio of 2,500,000:1 (dynamic). Input options to include HDMI, DisplayPort, and LAN control capability, with compatibility for integration into an AV control network. Supplied complete with mounting hardware, signal and power cabling, and professional alignment and calibration for immersive exhibit use.	28	Nos	4,500,000	126,000,000

S. No.	Item	Detailed Description	Quantity	Unit	Unit Rate (PKR)	Total (PKR)
4	Ultra Short Throw Laser Projector up to 5000 lumens	High-lumen Ultra Short Throw laser projectors with 4K resolution and minimum 5000 ANSI lumens brightness. Ideal for large immersive projections on walls, floors, or ceilings without shadows. Long lamp life (20,000+ hours), HDMI/DisplayPort inputs, and lens shift capabilities. 3 units per hall, total of 9 units.	16	Nos	3,750,000	60,000,000
5	Projection Mapping Server & Media Player	Professional-grade media server for real-time video playback, projection mapping, and multi-output control. Equipped with high-performance GPU, SSD storage (1TB+), and software for content synchronization across multiple screens and projectors. Includes HDMI/DP output ports, remote control access, and rack-mount casing. One unit per hall.	2	Nos	3,850,000	7,700,000
6	Immersive Content Creation (3D/Anamorphic)	Design and production of high-resolution animated content optimized for SMD screens and projection. Includes 3D anamorphic visuals, dynamic environmental scenes, wildlife and educational storylines with synchronized audio.	600	Seconds	140,000	84,000,000
7	2D General Content	Design and production of high-resolution animated content optimized for SMD screens and projection. Includes artistic visual dynamic environmental scenes, wildlife and educational storylines with synchronized audio. Content to be tailored per hall's screen size and layout.	1200	Seconds	95,000	114,000,000
8	Sound System (5.1 Immersive)	Surround sound system with 5 satellite speakers, 1 subwoofer, and amplifier. Suitable for smaller halls.	5	Sets	2,000,000	10,000,000

S. No.	Item	Detailed Description	Quantity	Unit	Unit Rate (PKR)	Total (PKR)
9	7.1 Immersive Sound System (Exhibit Grade)	Professional 7.1 surround sound system including 7 directional loudspeakers and 1 high-powered subwoofer, along with digital audio processor, amplifiers, speaker mounts, and acoustic panels for sound isolation and treatment. System calibrated by certified audio integrators for immersive spatial audio experience. One full set per hall.	3	Sets	10,000,000	30,000,000
10	Networking and IT Equipment	Complete Fiber Optic Network, Ticketing Application, Dashboard, Dual Screen POS terminals, Thermal Printers, Flapper Gates, CCTV Cameras, NVRs, Firewalls, Video Wall for Ticketing Hall, General IT Equipment, PA System.				50,000,000
11	HVAC System - 180 TR	Supply, installation, testing, and commissioning of a complete mid-tier commercial VRF/VRV-class air-cooled, heat-pump type HVAC system, comprising modular outdoor units sized to meet the approved heat load for the facility (approx. ____ TR diversified, subject to detailed calculation and Engineer's approval). The system shall include concealed ducted indoor units for immersive halls and public spaces, and high-wall, cassette, or smaller ducted units for administrative and support rooms as per drawings. Indoor units shall be provided with washable pre-filters, electronic expansion valves, insulated condensate drains with traps, and individual wired controllers. Outdoor units shall be equipped with inverter-driven compressors using R-410A or R-32 refrigerant, with efficiency meeting PEC/ASHRAE requirements, and configured to allow N+1 redundancy for critical zones where specified. A dedicated fresh air handling unit (FAHU) with	TR	180	600,000	108,000,000

S. No.	Item	Detailed Description	Quantity	Unit	Unit Rate (PKR)	Total (PKR)
		heat/energy recovery wheel, G4+F7 filtration, and appropriate drainage shall provide dehumidified outside air to maintain indoor conditions of 24 °C ± 1 °C at 50–55% RH. All ductwork shall be fabricated from galvanized steel to SMACNA standards, acoustically lined where required, and fitted with diffusers, volume control dampers, non-return dampers, and UL-listed fire dampers interlocked with the fire alarm system. Refrigerant piping shall be copper, with proper sizing, oil traps, isolation valves, pressure testing, and closed-cell insulation, while condensate piping shall be insulated and connected to approved drainage points. Air distribution shall achieve a noise criterion of NC-35 or better in immersive halls. The system shall integrate with the building management system (BMS) via a VRF gateway, enabling central scheduling, temperature setback, alarm reporting, and demand-controlled ventilation based on CO ₂ levels. Complete in all respects				
12	Transformer & RMU (11 kV intake)	Supply, installation, testing, and commissioning of an 11 kV Ring Main Unit (3-way SF6) with protections, 800 kVA 11/0.4 kV oil-immersed transformer with AVR, marshalling box, foundation, and utility metering cubicle. Complete in all respects with utility NOC and connection approvals.	1	Lot	25,000,000	25,000,000
13	Main Power Distribution	Main LT Switchboard (4000 A ACB), Automatic Power Factor Correction (APFC) panel ~300 kVAr, Sub Main Distribution Boards (SMDBs) for each hall/zone, associated HT/LT cabling, terminations, and containment. Complete installation as per approved drawings and PEC/IEC standards.	1	Lot	16,000,000	16,000,000

S. No.	Item	Detailed Description	Quantity	Unit	Unit Rate (PKR)	Total (PKR)
14	Backup Generator	Supply and installation of a 500 kVA (prime) diesel generator with acoustic canopy, AMF/ATS panel, day tank, exhaust system, vibration mounts, fuel piping, testing & commissioning. Complete in all respects.	1	Lot	32,000,000	32,000,000
15	Internal Power & Lighting	Complete wiring for power and lighting circuits, LED fixtures, emergency lights, exit signs, sockets, and small power outlets. Includes earthing system, lightning protection, and testing/commissioning.	1	Lot	25,000,000	25,000,000
16	UPS & Critical Low Current	Supply and installation of a 60 kVA modular UPS system with battery bank (30–45 min backup) for AV/IT systems, plus low-current containment for IT, CCTV, Fire Alarm, and PA systems.	1	Lot	9,500,000	9,500,000
17	Immersive Building Work	Building Grey Structure with Standard Foundation and Other Structure completed till plaster work with all conduit works done as per engineering drawings. Along with Flooring, Aluminum Works, Wood Works, Paint works, supply and installation of all plumbing, sanitary fixtures and electrical fixtures. Complete in all respects	28000	Sq. ft.		238,578,000
18	General Beautification Work	Exterior Beautification and Branding of exterior of Building	LS			15,000,000
19	Consultancy		LS	-	-	24,639,000
Taxes						163360000
Grand Total						1,409,977,000

DESIGN, ENGINEERING & COORDINATION FOR IMMERSIVE EXPERIENCE FACILITY

Description:

- Comprehensive architectural, structural, MEP, and specialized system design for the immersive facility, based on the approved concept and layout drawings.
- Preparation of detailed construction drawings, shop drawings, and as-built drawings for all disciplines, including civil, electrical, HVAC, low-current, and AV integration.
- 3D modeling (BIM preferred) for coordination of building services and to avoid clashes between HVAC ducting, cable trays, and AV mounts.
- Detailed load calculations for HVAC, power, lighting, and special equipment (SMD screens, projectors, sound systems).
- Integration of AV system design with structural and MEP layouts, ensuring projection paths, sound dispersion, and lighting control are optimized.
- Preparation of bills of quantities (BOQs), technical specifications, and tender packages for all sub-systems.

Design Guidelines

1. Zoning & Circulation

- Maintain clear visitor flow between the eight main halls (ICE, GARDEN, LIVE SKETCHBOOK, LIVE CANVAS, FLOWERS, OCEAN, WATERFALL INFINITE, FOREST) and lobby areas EXPERIENCE CENTER SAFARI....
- Separate public areas from technical/service areas to minimize operational disruption.

2. Projection & Screen Placement

- Ensure throw distances for all projectors are free from obstructions.
- Provide sufficient mounting height and access panels for maintenance of SMD walls and projection units.

3. Acoustic Design

- Incorporate sound isolation between halls to prevent sound spillover.
- Optimize speaker placement for immersive 7.1 surround sound.

4. HVAC & Ventilation

- Place FAHU and VRF outdoor units to allow easy maintenance while minimizing noise intrusion to exhibit halls.
- Supply air diffusers to be positioned to avoid airflow directly over projection surfaces.

5. Lighting & Power

- Lighting design to consider low ambient light in halls for optimal projection.
- Dedicated power circuits for AV equipment with UPS backup for critical systems.

6. Structural Provisions

- Load-bearing checks for heavy AV equipment (e.g., SMD screen panels, projectors).
- Adequate ceiling grid or support structure for suspended equipment.

7. Safety & Accessibility

- Clear emergency exit paths from each hall.
- Fire detection/suppression integrated with AV shutdown protocols.

DETAILED DESCRIPTIONS – IMMERSIVE EXPERIENCE FACILITY BOQ

1.0 Indoor SMD Screen (P2.5 or P3)

- Supply and installation of high-resolution Indoor LED SMD screens with pixel pitch of 2.5mm or 3mm, suitable for immersive visual experiences. Screens include full-color modules with minimum brightness of 1000 nits, aluminum die-cast cabinets, receiving and sending cards, power supply, and synchronous control system. System to be mounted on steel/aluminum framework, with wiring, connectors, and ventilation considerations.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.
- Contractor to provide warranty and after-sales service as per contract terms, including parts and labor coverage.
- Compliance with applicable PEC, IEC, ASHRAE, SMACNA, NFPA, and other relevant codes and standards.

2.0 High-Brightness 4K Laser Projector – 20,000 Lumens

- Supply, delivery, installation, and commissioning of a professional-grade 3-Chip DLP laser projector delivering true 4K resolution (3840×2400) via advanced pixel-shifting technology, with a minimum brightness of 20,000 ANSI lumens(center brightness ≥21,000 lumens).
- The projector shall incorporate a laser phosphor light source with a minimum lifespan of 20,000 hours, a dynamic contrast ratio of at least 25,000:1, hermetically sealed optics, and liquid cooling for continuous operation in immersive environments. Must support edge blending, geometric warping, and 360° installation, with multiple input options including HDMI, DisplayPort, and SDI, as well as expansion capability via modular input interface slots.
- The projector shall be supplied complete with an ultra-short throw or short-throw lens, professional mounting system, signal cabling, integration with the central AV control system, and on-site calibration for optimized immersive experience use.

- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

3.0 High-Performance 4K Ultra Short Throw Laser Projector – 7,000 Lumens

- Supply, delivery, installation, and commissioning of a professional-grade laser projector with a minimum native or enhanced 4K resolution (3840×2160), delivering a brightness of not less than 7,000 ANSI lumens. The projector shall be of ultra short throw or short throw design with a throw ratio of 0.25:1 or less, enabling large-scale projection from minimal distance without shadow interference.
- Light source to be laser phosphor with a lifespan of at least 20,000 hours in normal mode. Unit shall feature integrated edge blending and geometric correction (warping) for seamless multi-projector setups, with a minimum contrast ratio of 2,500,000:1 (dynamic). Input options to include HDMI, DisplayPort, and LAN control capability, with compatibility for integration into an AV control network. Supplied complete with mounting hardware, signal and power cabling, and professional alignment and calibration for immersive exhibit use.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

4.0 Ultra Short Throw Laser Projector up to 5000 lumens

- High-lumen Ultra Short Throw laser projectors with 4K resolution and minimum 5000 ANSI lumens brightness. Ideal for large immersive projections on walls, floors, or ceilings without shadows. Long lamp life (20,000+ hours), HDMI/DisplayPort inputs, and lens shift capabilities. 3 units per hall, total of 9 units.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.

- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

5.0 Projection Mapping Server & Media Player

- Professional-grade media server for real-time video playback, projection mapping, and multi-output control. Equipped with high-performance GPU, SSD storage (1TB+), and software for content synchronization across multiple screens and projectors. Includes HDMI/DP output ports, remote control access, and rack-mount casing. One unit per hall.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

6.0 Immersive Content Creation (3D/Anamorphic)

- Design and production of high-resolution animated content optimized for SMD screens and projection. Includes 3D anamorphic visuals, dynamic environmental scenes, wildlife and educational storylines with synchronized audio.

7.0 2D General Content

- Design and production of high-resolution animated content optimized for SMD screens and projection. Includes artistic visual dynamic environmental scenes, wildlife and educational storylines with synchronized audio. Content to be tailored per hall's screen size and layout.

8.0 Sound System (5.1 Immersive)

- Surround sound system with 5 satellite speakers, 1 subwoofer, and amplifier. Suitable for smaller halls.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.

- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

9.0 7.1 Immersive Sound System (Exhibit Grade)

- Professional 7.1 surround sound system including 7 directional loudspeakers and 1 high-powered subwoofer, along with digital audio processor, amplifiers, speaker mounts, and acoustic panels for sound isolation and treatment. System calibrated by certified audio integrators for immersive spatial audio experience. One full set per hall.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality

10.0 Networking and IT Equipment

- Complete Fiber Optic Network, Ticketing Application, Dashboard, Dual Screen POS terminals, Thermal Printers, Flapper Gates, CCTV Cameras, NVRs, Firewalls, Video Wall for Ticketing Hall, General IT Equipment, PA System.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

11.0 HVAC System - 180 TR

- Supply, installation, testing, and commissioning of a complete mid-tier commercial VRF/VRV-class air-cooled, heat-pump type HVAC system, comprising modular outdoor units sized to meet the approved heat load for the facility (approx. ____ TR diversified, subject to detailed calculation and Engineer's approval).
- Indoor units shall be provided with washable pre-filters, electronic expansion valves, insulated condensate drains with traps, and individual wired controllers.
- A dedicated fresh air handling unit (FAHU) with heat/energy recovery wheel, G4+F7 filtration, and appropriate drainage shall provide dehumidified outside air to maintain indoor conditions of $24\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ at 50–55% RH. All ductwork shall be fabricated from galvanized steel to SMACNA standards, acoustically lined where required, and fitted with diffusers, volume control dampers,

non-return dampers, and UL-listed fire dampers interlocked with the fire alarm system. Refrigerant piping shall be copper, with proper sizing, oil traps, isolation valves, pressure testing, and closed-cell insulation, while condensate piping shall be insulated and connected to approved drainage points. Air distribution shall achieve a noise criterion of NC-35 or better in immersive halls. The system shall integrate with the building management system (BMS) via a VRF gateway, enabling central scheduling, temperature setback, alarm reporting, and demand-controlled ventilation based on CO₂ levels. Complete in all respects

- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

Electrification

12.0 Transformer & RMU (11 kV intake)

- Supply, installation, testing, and commissioning of an 11 kV Ring Main Unit (3-way SF6) with protections, 800 kVA 11/0.4 kV oil-immersed transformer with AVR, marshalling box, foundation, and utility metering cubicle. Complete in all respects with utility NOC and connection approvals.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

13.0 Main Power Distribution

- Main LT Switchboard (4000 A ACB), Automatic Power Factor Correction (APFC) panel ~300 kVAr, Sub Main Distribution Boards (SMDBs) for each hall/zone, associated HT/LT cabling, terminations, and containment. Complete installation as per approved drawings and PEC/IEC standards.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.

- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

14.0 Backup Generator

- Supply and installation of a 500 kVA (prime) diesel generator with acoustic canopy, AMF/ATS panel, day tank, exhaust system, vibration mounts, fuel piping, testing & commissioning. Complete in all respects.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.
- System to be tested, commissioned, and calibrated by qualified technicians in accordance with OEM guidelines.

15.0 Internal Power & Lighting

- Complete wiring for power and lighting circuits, LED fixtures, emergency lights, exit signs, sockets, and small power outlets. Includes earthing system, lightning protection, and testing/commissioning.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.
- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.

16.0 UPS & Critical Low Current

- Supply and installation of a 60 kVA modular UPS system with battery bank (30–45 min backup) for AV/IT systems, plus low-current containment for IT, CCTV, Fire Alarm, and PA systems.
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.

- All components to meet or exceed the specified technical parameters, performance benchmarks, and durability requirements.
- Installation shall include all necessary accessories, mounting hardware, and fittings for complete functionality.
- All wiring, connectors, and control systems shall be integrated seamlessly with the existing facility infrastructure.

17.0 Immersive building Work

- Building Grey Structure with Standard Foundation and other structure completed till plaster work with all conduit works done as per engineering drawings. Along with Flooring, Aluminium Works, Wood Works, Paint works, supply and installation of all plumbing, sanitary fixtures and electrical fixtures. Complete in all respects
- Supply and installation to follow approved specifications and drawings, ensuring compliance with relevant international and local standards.

18.0 General Beautification Work

- Exterior Beautification and Branding of exterior of Building

EPC COMPONENT

THEME PARK

Sr. No.	Items	(in USD)	In million
1	Rotating Giraffe	70000	0.070
2	Flying UFO	59000	0.059
3	Ferris Wheel	210000	0.210
4	Gyroscope	7000	0.007
5	Rotating Bounce	180000	0.180
6	Happy Kangaroo	20000	0.020
7	Pendulum	158000	0.158
8	Flying Chair	58000	0.058
9	4 loop Roller Coaster	750000	0.750
	Total	1512000	1.512
10	Custom Duties and Taxes	1209600	1.210
11	Shipping Cost	453600	0.454
12	Installation Charges	150000	0.150
	Grand Total	3325200	3.325
	Grand Total in PKR	947682000	947.682
13	MEP, Electric Backup		230.000
14	Thematic Work		80.000
15	Site Development		40.000
16	Consultancy		26.354
		Grand Total	1324.036

EXTERNAL ELECTRIFICATION WORKS

PROPOSED 11KV FEEDER COST OF MATERIAL FOR HT LINE (Overhead)

DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (Rs)
CONDUCTOR (HT) DOG	MTR	6,000	413	2,478,000
PC POLE (HT) 45'	NO	9	108,254	974,286
STEEL CROSS ARM (WITH BRACES)	NO	50	10,068	503,400
11KV DISC INSULATOR	NO	60	4,019	241,140
DEAD END CLAMP (DOG)	NO	60	537	32,220
ANCHOR SHAKLE	NO	60	230	13,800
DOUBLE ARMING BOLT	NO	60	455	27,300
EYE – NUT	NO	60	173	10,380
P.G CONNECTOR (DOG)	NO	60	703	42,180
11KV PIN TYPE INSULATOR	NO	220	1,177	258,940
11 KV INSULATOR PIN FOR STEEL X ARM	NO	220	997	219,340
STRUT STAY	NO	25	100	2,500
STAY ROD	NO	34	63	2,142
STAY WIRE	KG	180	358	64,440
EARTH ROD	NO	40	1,500	60,000
EARTH WIRE	KG	200	358	71,600
NUT & BOLTS	L/S	1	15,000	15,000
SUB TOTAL				5,016,668
12% STORE CHARGES OF TOTAL COST OF MATERIAL				602,000
SUB TOTAL WIITH 12% STORE CHARGES				5,618,668
10% INSTALLATION CHARGES OF TOTAL COST OF MATERIAL				561,867
GRAND TOTAL				6,180,535
CIVIL WORK				
ERRECTION OF HT PC POLE (45')	JOB	9	10,000	90,000
ERRECTION OF STRUT STAY	JOB	25	5,000	125,000
FIXING OF STAY ROD HT	JOB	34	800	27,200
TOTAL				242,200

**BOO/COST ESTIMATE FOR 200 KVA DISTRIBUTION TRANSFORMER/
SUB STATION ON DOUBLE POLE (11KV FEEDER # 1)**

DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (RS)
TRANSFORMER 200 KVA	NO	4	1,298,301	5,193,204
LT PC POLE FOR T/F PLATEFORM	NO	4	55,000	220,000
STEEL CROSS ARM (WITH BRACES)	NO	4	10,068	40,272
PIN INSULATORS	NO	12	1,177	14,124
PIN FOR INSULATOR	NO	12	997	11,964
STEEL X-ARMS FOR D-FITTING	NO	4	8,000	32,000
DROP OUT CUT OUT	SET	12	4,878	58,536
TRANSFORMER PLATFORM (DOUBLE POLE)	NO	4	30,240	120,960
RABBIT CONDUCTOR FOR JUMPRING	MTR	120	256	30,720
D-SHACKLE	NO	32	409	13,088
SPOOL INSULATOR	NO	32	318	10,176
EARTH ROD	NO	8	1,500	12,000
EARTH WIRE	KG	40	358	14,320
NUT & BOLTS	L/S	1	15,000	15,000
SUB TOTAL				5,786,364
12% STORE CHARGES OF TOTAL COST OF MATERIAL				694,364
SUB TOTAL WIITH 12% STORE CHARGES				6,480,728
10% INSTALLATION CHARGES OF TOTAL COST OF MATERIAL				648,073
GRAND TOTAL				7,128,800
CIVIL WORK				
ERRECTION OF LT PC POLE	JOB	4	4,000	16,000
EARTHING OF LT PC POLES	JOB	4	1,000	4,000
EARTHING TRANSFORMERS	JOB	8	1,000	8,000
TOTAL				28,000

COST OF MATERIAL FOR LT LINE (Overhead)

(11KV FEEDER # 1)

DESCRIPTION	UNIT	QTY	RATE (RS)	AMOUNT (RS)
LT P.C POLES	NO	10	4,000	40000
D. SHAKLE	NO	200	409	81800
SPOOL INSULATOR	NO	200	318	63600
WASP CONDUCTOR	MTR	1,000	374	374000
WASP CONDUCTOR FOR JUMPRING	MTR	300	374	112200
L.C – 16	NO	400	145	58000
EARTH ROD	NO	10	1,500	15000
EARTH WIRE	KG	50	358	17900
STAY ROD	NO	81	63	5103

Annexure08 - Detail of EPC Component

STAY WIRE	KG	300	358	107400
NUTS & BOLTS	L/S	1	15,000	15000
SUB TOTAL				890,003
12% STORE CHARGES				106,800
SUB TOTAL WIITH 12% STORE CHARGES				996,803
10% INSTALLATION CHARGES OF TOTAL COST OF MATERIAL				99,680
GRAND TOTAL				1,096,484
ERRECTION OF LT PC POLE	JOB	10	4,000	40,000
EARTHING OF LT PC POLES	JOB	10	1,000	10,000
FIXING OF STAY ROD LT	JOB	81	800	64,800
TOTAL				114,800
Price of Demand Notice Including Grid and Panel, Feeder Connectiona and WAPDA Charges				2,500,000
GRAND TOTAL OF ALL ABOVE ITEMS				17,290,819

SUBSTATION

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
		INTERNAL ELECTRICAL WORKS FOR SUBSTATION				
1		Pvc Pipe				
		Supply and erection of PVC pipe for wiring recessed in walls, floors, roofs including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
	CH-24-3-iii	25 mm dia	Meter	90	446	40,100
2		Pvc Pipe				
	CH-24/8/i	Supply and erection of PVC pipe for surface wiring (main and sub-main) including clamps, inspection boxes, pull boxes bends etc., complete with all specials 50mm dia	Meter	90	559	50,333
3		HDPE Pipe				
	CH-23/42/d/1	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe, Beta/Dadex/Popular/ ILL or approved equivalent manufacturer, including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects. d) PN -12.5 (SDR-13.6) 1) 25mm	Meter	100	140	14,045
4		Single Core Cable				
	CH-24-11-i, iii, iv & v	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):-				
a		3/0.74 mm (3/0.029")	Meter	250	120	29,992
b		7/0.74 mm (7/0.029")	Meter	55	173	9,429
c		7/0.91 mm (7/0.036")	Meter	65	240	15,574
d		7/1.12 mm (7/0.044")	Meter	95	333	31,668
5		Three Core Cable				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	CH-24/13-b-vi	Supply and erection of PVC insulated, PVC sheathed copper conductor cables for service connection, in prelaaid pipe/G.I. wire/trenches, etc. (rate for cable only):- b) Three core, 600/1000 volt cable 7/1.63 mm (7/0.064")	Meter	280	2,311	647,080
6		Four Core Cable				
	CH-24-13-d	Supply and erection of PVC insulated, PVC sheathed copper conductor cables for service connection, in prelaaid pipe/G.I. wire/trenches, etc. (rate for cable only):- ARMoured CABLE				
b	vi	35 mm sq (19/0.064)	Meter	150	6,982	1,047,270
c	ix	95 mm sq	Meter	35	18,021	630,739
7		Switches				
	CH-24/108-b	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches/sockets/dimmer made of Hi-Life / Bush / Schneider / Clipsal or approved equivalent manufacturer, screws complete as approved and directed by the Engineer charge.				
	i	4 GANG 1 WAY SWITCH/PLATE	Each	4	971	3,885
8		Switch Sockets				
	CH-24/108-a-viii	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches/sockets/dimmer made of Hi-Life / Bush / Schneider / Clipsal or approved equivalent manufacturer, screws complete as approved and directed by the Engineer charge. 3 pin Power Plug 16 Amp	Each	4	915	3,659
9		Distribution Board (Light& Power)				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	CH-24-93-a-i	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surfacemounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controls Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). (a) 6" deep (i) 20~60A	Cft	2.51	24,467	61,411
a		DB SS Size: 800 x 650 x 200 mm				
		MCCB Breakers (Incoming)				
	CH-24-90-a-v	Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ SIEMEN/ ABB SWITZERLAND or approved equivalent manufacturer (with fixed Thermal-Magnetic Trip) in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		32 TP MCCB 25KA	Each	1	19,861	19,861
		MCB Breakers (Outgoing)				
	CH-24-89-a-iii	Supplying, Installation and commissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / SIEMEN GERMANY/ TERASAKI JAPAN/ ABB SWITZERLAND or approved equivalent manufacturer in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		16 Amps SP 10KA	Each	4	1,455	5,820
		10 Amps SP 10KA	Each	4	1,455	5,820
10		FIRE ALARM SYSTEM				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
a		FACP				
	CH-24/169-i	Supply, installation and commissioning of wired/wireless Addressable Micro processor based Fire Alarm Control Panel (FACP) capable of PC interface with window conforming to EN-54, consisting of specified loop circuits having 240 devices per loop, indicating circuits, built in power supply with back up batteries, alarm and trouble indication, silence alarm and reset system, general alarm and reset system, general alarm facility. Made of Eurotech Fire UK, Notifire USA, Bosch USA complete in all respect as approved and directed by Engineer Incharge. 1 loop panel	Each	1	294,235	294,235
b		MULTI DETECTOR				
	CH-24/168	Supply, installation and connections of Addressable Multi Detectors incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit, adjustable via software between 0-90 seconds and have built in short circuit isolators on both inputs. including cost of all other accessories or equivalent as approved and directed by the Engineer Incharge.	Each	3	11,033	33,098
c		MANUAL CALL POINT				
	CH-24/164-i	Supply, Installation and commissioining with Addressable Break Glass unit,(Manual Call Point) with key type EN-54 having a built in short circuit isolator and microprocessor to ensurea responsetime of max. 1 second,having an indication LED flash after pressing the button to acknowledge the activation and a key operation facility for testing purposes. made of Honeywell/ Bosch/ Eaton (UK) or as approved and directed by the Engineer Incharge.	Each	1	18,587	18,587
d		SOUNDER & FLASHER				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	CH-24/165-ii	Supply, installation and commissioning of Addressable Type Indoor Loop Powered electronic Sounder/Flasher/Bell EN-54 with minimum sound output 100dB at 1 meter with frequencies of variety of sounds as required and shall be loop wired and loop signaled, built in short circuit isolator, configured via software. made of Honeywell/ Bosch/ Eaton (UK), or equivalent as approved and directed by the Engineer Incharge. With Flasher	Each	1	25,923	25,923
e		Fire Alarm Cable				
	CH-24/163-i	Supply, Installation and commissioning of wiring with specified FireResistant Shielded Cable (Fire Rating for 2 hours) of required size from respective DB to Fire Alarm FACP (Fire Alarm Control Panel) in prelaidd conduit/duct. MakePony / Belden/ Covican (Italy) or equivalent as approved and directed by the Engineer Incharge. i) 2C,1.5 mm sq	Meter	75	428	32,063
11	CH-24/105-b-i	Providing and fixing Copper Winded Exhaust Fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. (Steel body). 12" dia	Each	3	5,868	17,604
12		Cable Tray				
	CH-24-100-b	Providing and fixing specified deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung on painted brackets of MS angle iron of 1"x1"x1/8" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. i) 4" x 3"	Meter	50	1,731	86,545
SCHEDULE ITEMS TOTAL COST						3,124,740
13		WAPDA METERING PANEL				

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	NS	Vacuum Circuit Breaker (VCB), HT 11 KV, WAPDA Metering Panel floor mounting, 400/630 A, rating 25 KA, 17.5 KV complete with selector switches, indicating lamps, spring Charging motor 220 V AC, 50ms DC closing coil 110 V DC, 50ms DC Trip Coil 110 V, CT, PT, Earth fault, over current, short circuit, current digital relay, frequency meter, amp meter, volt meter, capacitor trip unit, MCB 06 A, SP, charging handle, push button, mounted in sheet steel cubicle, factory assembled duly painted, single panel unit complete with energy meter, MDI & KVARH complete in all respect.	Each	1	7,113,000	7,113,000
14		Consumer Panel				
	NS	Vacuum Circuit Breaker (VCB), HT 11 KV, Consumer Protection Panel floor mounting, 400/630 A, rating 25 KA, 17.5 KV complete with selector switches, indicating lamps, spring Charging motor 220 V AC, 50ms DC closing coil 110 V DC, 50ms DC Trip Coil 110 V, CT, PT, Earth fault, over current, short circuit, current digital relay, frequency meter, amp meter, volt meter, capacitor trip unit, MCB 06 A, SP, charging handle, push button, mounted in sheet steel cubicle, factory assembled duly painted, single panel unit complete with energy meter, MDI & KVARH complete in all respect.	Each	1	7,113,000	7,113,000
15		Light Fitting Fixtures				
	NS	Supply , installation, connecting and testing of lighting fixtures surface/Ceiling mounted or to be fixed in the false ceiling, complete with ceiling rose, lamp holders, Light, Earthing terminals and internal wiring,conector, including hangers brackets & necessary hardware such as screws, anchors, etc. complete in all respect approved type and to entire satisfaction of Consultants/Client. Manufactured by Phillips, Thorn, NVC or equivalent				
a		#REF!	Each	10	8,400	84,000

Sr. No.	Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
b		Surface/Ceiling mounted combination exit light with red/green color non-maintained including 3 hours battery backup, injecton-molded thermoplastic ABS housing, AC Power: 7.5 W, Lead-acid battery(6V4.5AH), Lumens: > 8cd/m². Complete in all respects.	Each	4	35,000	140,000
c		Surface mounted flood light 100W , IP-65 rating, Lumens rating 10,000, Voltage 220-240V, including SMD LED Chip, Wide lighting angle : 110 degree, Color rendering index <70, power factor 0.9, Protection class IEC safety class I. Complete in all respect.	Each	3	60,661	181,984
NON-SCHEDULE ITEMS TOTAL COST						14,631,984
TOTAL COST						17,756,725

EXTERNAL ELECTRIFICATION

Sr. No.	MRS Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
1	24/14/a/iii	Twin core cable 7/0.74 mm (7/0.029") - 2.5mm ² copper conductor, PVC insulated cable complete (excluding conduit), supply and fixing.	Meters	2800	394	1,103,480
2a	24/90aiii	Triple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip MCCB, 32-100 Amp(36 KA), supply and fixing	Each	50	24,361	1,218,053
2b	24/90ai	Triple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip MCCB, 25-100 Amp(25 KA), supply and fixing	Each	40	19,861	794,442
2c	24/90ax	Triple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip MCCB, 630-1600 Amp(50 KA), supply and fixing	Each	10	348,672	3,486,716
2d	24/90aiii	Triple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip MCCB, 125-400 Amp(25 KA), supply and fixing		5	56,461	282,307
3	24/13iv	Supply and erection of single core 16 mm sq (7/0.064") PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, laid in trenches complete with bricks, sand (excluding cost of excavation) supply and fixing.	Meters	2000	764	1,527,700

Sr. No.	MRS Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
4		Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at bottom to 100 mm at top, with 1500 mm x 60 mm x 4mm thick dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built in junction box with shutter, i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer In charge.				
a	24/73/a/ii	Single Arm 10 M	Each	130	134,229	17,449,796
b	24/73/a/iii	Double Arm 10 M	Each	5	139,269	696,347
5	MRS	Foundation for 10 meter Pole	Each	263	100,000	26,300,000
6	24/74cviii	Supplying, installation and commissioning of LED Cobra-head Luminaries of 150 Watt with 18000 lumens conforming to IP 66 & IK 08 or above Philips/Osram/Thorn or NEECA approved equivalent manufacturer with corrosion resistant die casted Aluminum housing, silicon gasket in special groove, UV stable & scratch resistant synthetic materials, thermally hardened glass complete with LED Chip (Philips Lumiled/Cree/Nichia/Osram make or equivalent approved manufacturer), programmable LED driver (NVC/TCI/Lumotech/Philips/VOSSLOH Schwabe/Lightech make or approved equivalent manufacturer), minimum 10kV surge protection rating device i/c the cost of all accessories/components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as	Each	140	86,589	12,122,516

Sr. No.	MRS Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
		approved and directed by the Engineer Incharge.				
7		Rod Type Earthing				
	CH-24-175	Providing, making & testing/commissioning of Rod type Earth point comprising of 5/8" dia. (16 mm dia) 10 ft long copper coated M.S. rod driven in ground duly fixed with clamp with Tinned earth test link copper plate (300x50x10mm), i/c the cost of brass nuts, spacers, bolts washers lugs etc but excluding the cost of copper strand & manhole. as approved and directed by Engineer Incharge (Rod Type Earthing).	Job	50	20,577	1,028,870
8		3-Phase Meter				
	CH-24-79-b-iii	Supply and erection of electric energy meter, including meter testing fee, etc. 3x80 Amp, 400 volts	Each	3	22,248	66,744
SCHEDULE ITEMS TOTAL COST						66,076,970
9		Transformer Protection Box				
	NS	Supply, installation, testing and commissioning of wall mounted MCU of required depth and size, fabricarted with 14SWG M.S sheet (Outdoor Type), derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, Brass glands, Earth bar, Digital volt meter/Amp meter, Current Transformers, Controles, Channels, Copper bus bars of specified capacity ,Door Earthing, complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) IP-65 rating Size: 1.5 ft x 1.5 ft	Each	5	48,000	240,000
10		LT Service Box				

Sr. No.	MRS Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
	NS	Supply and installation of floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of capacitor trip unit over current, Lock, Indication lights, Brass glands, Netural & Earth bar, Digital volt meter/ Amp meter, Slector switchs, Current Transformers, Controles, Channels, Copper bus bars of specified capacity ,Door Earthing, complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).	Each	20	275,000	5,500,000
11	NS	Supply and erection of Four Core armoured XLPE insulated, PVC Sheathed Aluminum conductor cables 600/1000 volts, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-				
a		4C x 16 mm ²	Meters	1200	6000	7,200,000
b		4C x 25 mm ²	Meters	1250	7000	8,750,000
c		4C x 35 mm ²	Meters	1000	7500	7,500,000
d		4C x 50 mm ²	Meters	800	13500	10,800,000
e		4C x 70 mm ²	Meters	800	18000	14,400,000
f		4C x 95mm ²	Meters	800	25000	20,000,000
g		4C x 120 mm ²	Meters	900	29500	26,550,000
h		4C x 150mm ²	Meters	600	32000	19,200,000

Sr. No.	MRS Ref No.	Description	Units	Qty	Rate (Rs.)	Amount (Rs.)
12	NS	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at bottom to 100 mm at top, with 1500 mm x 60 mm x 4mm thick dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built in junction box with shutter, i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer In charge.				
a		3 meter Pole for external light	Each	128	75,000	9,600,000
13	NS	Upvc Class D with all fittings (i.e. sockets, bends, tees, elbows where required) and laid complete in trenches (excluding excavation) or fixed to wall, floor (surface or concealed) and ceiling etc., including caps and plugs as required 25mm dia, supply and fixing.	Meters	1000	650	650,000
14	NS	Supply and installation of LED Post Top Light 60W, 8400 lumens, 120° beam angle, CRI >70, power factor: >0.9, 140lm/w, IP-66 rated. Complete in all respect.	Each	128	90,000	11,520,000
NON- SCHEDULE ITEMS TOTAL COST						141,910,000
TOTAL COST						207,986,970

QUOTATIONS

 ZHENGZHOU CARNEE AMUSEMENT RIDES CO., LTD. Add: No.173, Fengxiang Street, High-tech District, Zhengzhou City, Henan Province, China 450001 Email: jenny.chen@carneerides.com Tel: +86 15138992046						
Proforma Invoice						
TO: Junaid Nadeem				INVOICE NO.: CN202508004 INVOICE DATE: 2025-08-07 TRADE TERM: CIF LOADING PORT: QINGDAO, CHINA DISCHARGE OF PORT: KARACHI PORT VALIDITY: 15 DAYS		
No.	Product	Picture	Description	EXW Unit Price	Q'ty	Total
1	Ferris Wheel-42		Height: 42m Power: 25Kw Voltage: 380V 50HZ Cabin: 24pcs Capacity: 96person Space area: 31x28m	US\$210,000	1Set	US\$210,000
2	4 Places Gyroscope		Area: 3,5m*3,5m Height: 3m Power: 3kW Voltage: 220V Capacity: 4 person	US\$6,000	1Set	US\$6,000
3	Rotating Bounce-B		Size:Dia13mxH5m Capacity:36P Cabin:12pcs Power:80kW Voltage:380V 50Hz Speed:14rpm Space Area: Dia15m	US\$180,000	1Set	US\$180,000
4	Huge Happy Kangaroo		Covered Area: 12*12m Height: 4.5m Cabins: 8 Capacity: 16P Speed: 8rpm Voltage: 380V Power: 10kW	US\$20,000	1Set	US\$20,000
5	360° Pendulum		Size:L9mxw9mxH11m Power:30kW Voltage:380V 50HZ Capacity:12P Space Area:10mx14m	US\$148,000	1Set	US\$148,000

Annexure08 - Detail of EPC Component

6	36 Seats Flying Chair		Capacity:36P Size:D10mxH8.5m Power:23.5kW Voltage:380V 50Hz Speed:10-14rpm Space Area:D17m	US\$58,000	1Set	US\$58,000
7	Four-loop Roller Coaster		Floor area: 90*40m Track length: 480m Track height: 25.2m Number of passengers: 16 Number of cabins: 4 Drive power: 55kw Service life: 16 years	US\$720,000	1Set	US\$720,000
AMUSEMENT RIDES AMOUNT						US\$1,342,000
SHIPPING COST						US\$208,000
TOTAL AMOUNT						US\$1,550,000
Company Bank Account: Beneficiary: ZHENGZHOU CARNEE AMUSEMENT RIDES CO., LTD. Beneficiary Account No.: 253344288213 Swift Code: BKCHCNBJ530 Bank Name: THE BANK OF CHINA, XINGYANG-BRANCH Bank Address: 15TH, SUOHE XI ROAD, XINGYANG, HENAN, CHINA ZIP:450100						
TERMS AND CONDITIONS: 1.Price Term:CIF Price 2.Payment Terms: T/T, 40% as deposit, 60% balance before deliver 3.Production Time: 120-150 working days 4.Warranty: 12months 5. Delivery: by Sea, 11 FCL 40HQ Container, 12 FCL Open Top Container, 1300CBM Bulk Cargo						

郑州市东日拓基国际贸易有限公司
ZHENGZHOU DONGRI TUOJI INTERNATIONAL TRADE CO.,LTD
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eric@wanlerides.com? +86 17803993495

QUOTATION SHEET

To: Director General, Wildlife & Parks Punjab			From: Eric Ma	
Contact:Mr.Khawaja Junaid			Date: 20250807 (Valid for 15 days)	
Tel: +92 320 5552888				
NO	PRODUCT NAME	REFERENCE PICTURE	SPECIFICATION	UNIT PRICE (USD)
1	Rotating Giraffe		Capacity: 30persons Cabins:15pcs Power : 19.5KW Voltage: 380V/50HZ Machine diameter: 12.6m Area diameter: 13m Height: 5.3m Speed: 1.88rpm	\$69,700
2	Wanle Jungle Knight (with platform)		Capacity: 12persons Cabins: 3 set Power : 3.5KW Height:2m total length:11.8m Voltage: 380V/50HZ Track length: 50m Area size: Be customized Minimum turning radius: 2.8m Speed: 1.9m/s	\$31,300

3	Flying UFO BNFU-24A		Area: 26*9m Ride height: 10m Dynamic height: 8m Driving power: 45KW Rotating motor power: 11KW Total power: 60kw Working speed: 12m/s Voltage: 380V Weight: 15.84T Capacity: 24 persons	\$58,800
4	4 loops Roller coaster BNRC-4M		Area: 90*40m Track length: 500m Track height: 25.2m Max speed: 70km/h Operate time: 120s/round Electric source: 380V/50Hz Power: 90KW Capacity: 16ps (4ps*4cars) With 4 loops Mountain and platform not included	\$685,200
5	Ferris wheel BNFW-42A		Total height: 42m Area: 23*26m Rotation diameter: 38.4m Running time: 8rpm Total power: 25KW Driving power: 16KW Voltage: 380V Cabin No.: 24 Capacity of cabin: 4 person Capacity: 96 persons	\$172,100
TOTAL AMOUNT				\$1,017,100

Terms and Conditions:

1. Trade Terms : EXW (factory price)
2. Package: FRP part packing with wooden box, and steel part packing with bubble bag or fabrics.
3. Payment terms: 100% T/T, Advance payment: 30% as advance payment, clear balance before delivery.
4. Delivery time: 2-3 months
5. Warranty: 12 months. (Once the customer received the rides, the warranty will be started. During the warranty time 1 year, any damage problem caused by our factory, we will send you spare parts for free.)
6. Installation:

We will provide customers install photos or videos to help install the rides; if required (also suggested), we will arrange our engineers to install the rides on the oversea spot, and the customer shall afford visa, round trip tickets, local accommodation and salary (\$150/day/person)

ANNUAL PROCUREMENT PLAN IN LINE WITH PPRA**ANNUAL PROCURMENT PLAN FOR 2025-26 & 2026-2027****(Under Rule 8 & 9 of the Punjab Public Procurement Rules 2014)****MACHINERY, STORE, TOOLS & EQUIPMENT****(Rs. in million)**

Sr. No.	Name of Procurement (Description)	Estimated Cost	Procurement Method	Tentative Date of Procurement / Notice Publication	Tentative Date of Award of Contract	Tentative Date of Completion	Remarks (if any)
2025-26							
1.	Tractor along with accessories	4.000	Direct Contracting	-	-	-	
2.	Bird Breeding Boxes	1.400	Tender	Jan, 2026	Feb, 2026	April, 2026	
3.	Furniture for Wooden Lodges	2.600	-do-	Jan, 2026	Feb, 2026	April, 2026	
2026-27							
1.	Tractor along with accessories	4.000	Direct Contracting	-	-	-	
2.	Bird Breeding Boxes	1.600	Tender	Aug, 2026	Sept, 2026	Nov, 2026	
3.	Children Play Area	15.000	-do-	Aug, 2026	Sept, 2026	Nov, 2026	
4.	Furniture for Wooden Lodges	3.900	-do-	Aug, 2026	Sept, 2026	Nov, 2026	

IMPLEMENTATION PLAN**CONSERVANCY AND WORKS****(Rs. in million)**

Sr. #	Item of Work	Cost	2025-26	2026-27
1.	Construction of Boundary Wall	8.788		
2.	Construction of Approach Path to Residences	2.756		
3.	Construction of Staff Residencies	242.977		
4.	Construction of Birds Aviary	813.273		
5.	Construction of Hippo Housing	79.080		
6.	Construction of Crocodile Pond	76.790		
7.	Construction of Pakistani Ungulates Enclosure	45.708		
8.	Construction of African Ungulates Enclosure	83.300		
9.	Rehabilitation of Existing Lake	70.187		
10.	Woodland Lodges	38.549		
11.	Approach Track and Outdoor Sitting of Woodland Lodges	5.520		
12.	Sewerage System	237.942		
13.	Road Carpeting	10.301		
14.	Rock Climbing Wall	65.018		
15.	Provision of Small Structures	2.256		

MACHINERY STORE & EQUIPMENT

(Rs. in million)

Sr. #	Item of Work	Cost	2025-26	2026-27
1.	Bird Breeding Boxes	3.000		
2.	Tractor 285	8.000		
3.	Children Play Area	15.000		
4.	Furniture for Wooden Lodges	6.500		

COMMODITIES & SERVICES**(Rs. in Million)**

Sr. #	Item	Cost	2025-26	2026-27
1.	Landscaping and Habitat Development	100.000		
2.	Sculptures and Theming	70.000		
3.	Purchase of animals and birds	528.910		
4.	Purchase of Fishes for Aquarium	66.000		
5.	Stationary	2.200		
6.	Signage	20.000		
7.	Publicity & Advertisement	4.000		
8.	Medicine	30.000		
9.	POL	10.000		
10.	Rate and Taxes	0.300		
11.	Electricity	10.000		
12.	Consultancy	25.723		
13.	Others (2% Contingency)	17.408		

RECRUITMENT PLAN OF HUMAN RESOURCE

Particulars	2025-26		
	October	November	December
Advertisement			
Receipt of Applications			
Scrutiny of Documents / Shortlisting of Candidates			
Test / Interview			
Selection of Candidates			
Issuance of offer letters / orders			
Medical fitness / Joining			

RESULT-BASED MONITORING (RBM) INDICATORS

Sr. No.	Input	Output	Outcome		Targets after Completion of Project
			Baseline Indicator	Targets after Completion of Project	
1.	Construction of Theme Park, Aquarium, Bird Aviary, Immersive Experience Center, Hippo House, Crocodile Pond and upgradation / rehabilitation of Ungulate Safaris, Lake, Residential Colony.	Upgradation of Safari Zoo Lahore to International Standards	Lack of mentioned public attracting facilities at Safari Zoo.	After development of these facilities, better animal welfare standards will be maintained and provision of enhanced immersive experience, technology driven recreation and education to the visitors	International animal welfare standards. Imparting wildlife awareness through recreation. Enriched experience development.

RISK MITIGATION PLAN

Sr. #	Risks	Causes / Factors	Effects	Risk Mitigation Plan	Institution(s) Responsible to Take Corrective Measures to Mitigate Risk	Nature of Risk
1.	Lack of funds for timely execution of the project.	No funds released by provincial Government.	Delay results in increase in project cost.	Government may prioritize funding for the project considering its impact / importance.	P&D Department, Finance Department	High Risk
2.	Insufficient funding for the execution of the project.	Short funding of project.	Delay results in increase in project cost.	Government may prioritize funding for the project considering its impact / importance.	P&D Department, Finance Department	
3.	Non-timely release of funds for the execution of the project.	Delay in release of funds due to approval / procedural matters.	Delay results in increase in project cost.	Timely initiation of approval procedure to ensure early processing of case for release of funds.	Wildlife & Parks Department	

PROJECT STEERING COMMITTEE

1	Secretary, Government of Punjab, Forestry, Wildlife & Fisheries Department	Chairman
2	Director General Wildlife & Parks Punjab	Member
3	Representative, Planning and Development Board, Punjab	Member
4	Representative, Finance Department, Punjab	Member
6	Project Director	Member / Secretary
7	Any other co-opted member	Member

Term of References

- i. To oversee the implementation of the Project towards achieving desired objectives.
- ii. Provide policy guidance for issues identified during implementation phase.
- iii. Review the periodic monitoring and evaluation reports.
- iv. Approve financial and physical readjustments during implementation process.
- v. Approve change in number or variety of species to be procured as per its availability and while considering the suitability of housing facility.

RECRUITMENT COMMITTEE

The recruitment committee to recruit the PPS project staff is given as under.

1.	Secretary, Government of the Punjab, Forestry, Wildlife & Fisheries Department	Chairman / Competent Authority
2.	Director General Wildlife & Parks Punjab.	Member
3.	Additional Secretary Admin, Forestry, Wildlife & Fisheries Department	Member
4.	Representative of Finance Department	Member
5.	Representative of Planning & Development Board	Member
6.	Any other co-opted member(s) nominated by Secretary FW&F.	Member

RECRUITMENT CRITERIA

Sr. No.	Post	PPS	No. of Posts	Job Qualification and Experience	Job Description
1.	Project Director	10	01	- Minimum 16 years' education in Zoology / Wildlife Management / Civil Engineering or relevant field - At-least 5 years' relevant post qualification experience in Wildlife Management, Conservation Projects, Project Management. - Preference will be given to candidates with demonstrated experience in: - Executing wildlife projects. - Financial and accounts management, including budgeting, financial reporting, and audit compliance. - Procurement processes in government organization - Stakeholder engagement and inter-departmental coordination. - Maximum age limit 45 years. *Till regular posting of Project Director, any officer in at least BS-17 from Wildlife & Parks Department shall be posted / given additional charge.	Leads the overall management of the project, ensuring timely delivery, budget adherence, and effective stakeholder coordination. Key Responsibilities: - Oversee project execution, timelines, and budget management. - Coordinate with internal teams and external stakeholders. - Ensure project compliance with environmental regulations. - Review and approve project plans and reports. - Address project risks and issues promptly.

TENTATIVE LIST FOR ACQUISITION OF ANIMALS / BIRDS

Sr. No.	Birds	Quantity	Tentative Cost Per Individual
ANIMALS			
1	Hippo	1 pair	25m
2	Kudu	3 trio	5m
3	Impala	3 trio	3.5m
4	Eland	3 trio	5m
5	Blesbok	3 trio	3.5m
6	Cobus Lechwe	3 trio	5m
Total:			248.00m
BIRDS (pairs)			
1	Blue and Gold Macaw	5	0.7m
2	Green winged Macaw	5	1.2m
3	Military Macaw	1	1.6m
4	Scarlet Macaw	3	2.2m
5	Major Michelle	1	2.5m
6	Galah Cockatoo	5	0.5m
7	Grey Parrot	12	0.22m
8	Eclectus Parrot	5	0.42m
9	Orange wing Amazon	15	0.125m
10	Blue front Amazon	2	0.42m
11	Double Yellow head Amazon	1	1.3m
12	Sun Conure	50	0.08m
13	Pentagonian Conure	10	0.12m
14	Pineapple Conure	100	0.03m
15	Blue, Grey, Yellow Ringneck Parakeet	49	0.1m

Sr. No.	Birds	Quantity	Per / Piece
16	Nicobar Pigeon	19	0.4m
17	Helmeted Crossbow	3	1m
18	Beard face Crossbow	3	0.7m
19	Crested Guinea fowl	15	0.4m
20	Crowned Crain	5	1.3m
21	Pure Green Java	10	0.3m
22	Pure Silver Pied	15	0.32m
23	Rheas	10	0.4m
24	Reeves Pheasant	10	0.1m
25	Swinhoes Pheasant	2	0.15m
26	Elliot Pheasant	2	0.3m
27	Khaleej Pheasant	10	0.075m
28	Grey Peacock Pheasant	2	0.35m
29	Bormian Fireback Pheasant	2	0.7m
30	Siamese Fireback pheasant	2	0.5m
31	blue eared pheasant	2	0.45m
32	Brown eared pheasant	2	0.45m
33	Paloson Peacock Pheasant	2	0.45m
34	Black Swan	5	0.4m
35	Mute Swan	5	0.5m
36	Black Neck Swan	5	0.7m
37	Pelican	5	0.3m
38	Flamingo	10	0.1m
39	Rainbow Lorry	20	0.18m
40	Red Lorry	2	0.4m
41	Black Capped Lorry	2	0.4m
42	Brown Lorry	2	0.4m
43	Chattering Lorry	2	0.4m
44	Black Lorry	2	0.4m
45	Swinson Lorry	20	0.3m

Sr. No.	Birds	Quantity	Per / Piece
46	Hawk headed Parrot	2	0.35m
47	White chested Conour	10	0.2m
48	Yellow naped amazon	1	2m
49	Golden Mental Rosella	10	0.18m
50	Red Rosella	10	0.18m
51	Mallee Rossella	10	0.18m
52	Latino Rossella	10	0.18m
53	Turaco	2	0.35m
54	Goldians	200	0.04m
55	Mix Color Java Finch	250	0.015m
56	Diamond Dove	200	0.010m
Total:			280.910m
Grand Total:			528.910m

*The species and number of animal / birds to be procured may be amended as per housing / zoo requirement.

**The price mentioned are only tentative and subject to fluctuation on account of various factors including currency fluctuation, availability in market, import/export controls, etc.



042-99059157

No. 4(4)PO(CONS)P&D/2025
GOVERNMENT OF THE PUNJAB
PLANNING AND DEVELOPMENT BOARD
Dated Lahore 13th October, 2025

To

The Secretary,
Government of the Punjab,
Forestry, Wildlife & Fisheries Department,
Lahore

Subject: **APPROVAL OF TORS FOR VETTING- IMPLEMENTATION OF MASTER PLAN AT SAFARI ZOO, LAHORE (PHASE-II).**

I am directed to refer to your office letter No. **16(62)AC(FWF)P&D/24** dated **30.09.2025** on the subject noted above and to convey the approval of **enclosed** 02 Nos. of Terms of References (TORs) for hiring the services of consultancy for conducting Design and Resident Supervision of the scheme titled **"Implementation of Master Plan at Safari Zoo, Lahore"** duly approved by the Authority.

2. Further necessary action may be taken by the Procuring Agency as per Punjab Procurement Rules, 2014.

ASSISTANT CHIEF (CONSULTANCY)

CC:

- i. Planning Officer (FW&F) P&D Board w.r.t to his reference letter mentioned above.
- ii. PS to Secretary, P&D Board, Lahore.
- iii. PS to Member (Env. & CC), P&D Board Lahore.
- iv. PA to Sr. Chief (Consultancy) P&D Board Lahore.
- i. Concerned file.

**TERMS OF REFERENCE (TORS) FOR DESIGN CONSULTANCY –
IMPLEMENTATION OF MASTER PLAN OF SAFARI ZOO, LAHORE (PHASE-II)**

BACKGROUND

The Government of Punjab, through the Punjab Wildlife & Parks Department, is implementing the ADP project “**Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)**” during the Fiscal Years 2025-26 to 2026-27; with the objective of transforming Safari Zoo, Lahore into a **modern, world-class, educational, and vibrant eco-tourism facility**.

The project involves construction of new infrastructures (walkthrough birds aviary, hippo housing, crocodile pond, woodland lodges, etc.), rehabilitation of existing facilities (lake, ungulate safari enclosures and landscapes), development of staff residencies, sewerage system, and road networks, along with provision of modern visitor amenities.

To ensure **high-quality design, modern standards, and cost-effective execution**, the Punjab Wildlife & Parks Department seeks to hire a **qualified Engineering Design Consultant Firm**.

OBJECTIVES

- i. Prepare detailed designs of all civil works under the project.
- ii. Ensure integration of architectural, structural, civil, electrical, mechanical, IT, landscaping, horticultural, and environmental aspects.
- iii. Prepare BOQs, Engineer's Designs & Estimates, and Technical Specifications.
- iv. Provide requisite details and assistance to the department for issuance of Technical Sanction.

SCOPE OF WORK AND TASKS: RESPONSIBILITY OF THE CONSULTANT FIRM

The consultancy firm is expected to undertake following tasks;

i. Surveys & Investigations

- a. Electrical Resistivity Survey.
- b. Site surveys, soil / geotechnical investigations where required.

ii. Detailed Engineering Designs

- a. Architectural drawings of all buildings, aviaries, animal enclosures, staff residencies, and visitor facilities mentioned in the PC-I.
- b. Engineering / Structural designs (as per latest international standards for captive wildlife ensuring animal welfare).



- c. Civil and infrastructure designs (roads, pavements, sewerage, drainage, water supply, wastewater management, etc.).
- d. Electrical and Mechanical designs (lighting, HVAC (if and where required) firefighting, power distribution, safety systems, etc.).
- e. Landscaping and horticulture design (including eco-sensitive plantation, pathways, and habitat aesthetics).

iii. Tender & Contract Documents

- a. Provision of detailed BOQs.
- b. Provision of Engineer's Estimates.
- c. Provision of Technical Specifications for issuance of Technical Sanction.

ROLE AND RESPONSIBILITY OF CLIENT DEPARTMENT (PROCURING AGENCY)

- a. Ensure timely facilitation, site readiness, and coordination with vendors.
- b. Review and approve consultant's reports / deliverables.
- c. Execute procurement processes as per PPRA Rules with consultant's technical support.

COORDINATION AND COMMUNICATION

Both the Design Consultant Firm and Punjab Wildlife & Parks Department will designate focal persons to review the progress and conduct regular review meetings.

DETAIL OF DELIVERABLES, TIMELINES, AND PROPOSED PAYMENT SCHEDULE

The design consultancy will span a period of **3 months (12 weeks)** from the date of signing the contract agreement. The estimated timelines are outlined below:

Stage	Deliverables	Timeline
i	Electrical Resistivity Survey	Week 0 – 1
ii	Detailed Architectural Drawings	Week 0 – 3
iii	Detailed Engineering / Structural Designs / Drawings	Week 3 – 6
iv	Detailed Electrical & Mechanical Drawings	Week 5 – 7
v	Detailed Horticulture & Landscaping Designs	Week 6 – 9

Stage	Deliverables	Timeline
vi	Submission of detailed BOQs, Engineer's Estimates and Technical Specifications	Week 9 – 12

QUALIFICATION, EXPERIENCE AND JOB DESCRIPTION OF MANPOWER ENGAGED BY THE CONSULTANT FIRM

The Consultant Firm must be a **registered engineering / architectural firm with minimum 05 years of experience** and preferably having experience in Zoo / Wildlife Park / Eco-tourism projects. The team must include the following key personnel:

Sr. No.	Position	Min. Years of Experience	No.	Staff-Months	Minimum Qualification	Job Description
1	Team Leader / Project Manager (Civil Engineer)	10	1	3	B.Sc. Civil Engineering, (PEC Registered) or equivalent	Lead overall project design and management, client coordination, ensure timely deliverables.
2	Senior Architect	7	1	3	B.Arch. (PCATP Registered) or equivalent	Prepare zoo/park architectural layouts, animal enclosures, and visitor facility designs.
3	Structural Engineer	7	1	2.5	B.Sc. Civil/Structural Engineering (PEC Registered & Professional Licensed Engineer)	Design and review stability of structures, enclosures, and allied infrastructure.
4	Civil Engineers	5	2	5 (2.5+2.5)	B.Sc. Civil Engineering (PEC Registered)	Design of roads, drainage, sewerage, and water supply systems.
5	Captive Wildlife Expert	7	1	1	M.Sc. Zoology / Wildlife Management or equivalent	Provide expertise on animal housing, enclosures, and



Sr. No.	Position	Min. Years of Experience	No.	Staff-Months	Minimum Qualification	Job Description
						international zoo standards.
6	Electrical & Mechanical Engineer	3	1	1	B.Sc. Electrical/Mechanical Engineering (PEC Registered)	Design of power, HVAC, firefighting, and safety systems.
7	Horticulture / Landscaping Expert	3	1	1	M.Sc. Horticulture / Forestry / Botany or equivalent	Plan zoo-specific landscaping and green spaces.
8	Surveyor	2	1	1	Diploma of Associate Engineer (Civil/Survey) or equivalent	Conduct topographic surveys, leveling, and setting-out.
9	AutoCAD / BIM Operators	2	2	6 (3+3)	Diploma / Certificate in AutoCAD/BIM or equivalent	Prepare design drawings, 3D models, and documentation support.

PROFESSIONAL LIABILITY

The professional liability of the Consultant shall be as defined in **Rule 54 of the Punjab Procurement Rules, 2014 (amended to date)**.



**TERMS OF REFERENCE (TORs) HIRING OF CONSTRUCTION / RESIDENT
SUPERVISION CONSULTANT FOR IMPLEMENTATION OF MASTER PLAN OF
SAFARI ZOO, LAHORE (PHASE-II)**

1. Introduction / Brief Background

The Punjab Wildlife & Parks Department, as the custodian of Punjab's wildlife resources, is committed to the protection, preservation, and sustainable management of biodiversity and natural habitats. The Department originated from the Game Department in 1934, was restructured in 1973, and is governed by the Punjab Wildlife Act 1974 (amended up to 2007) and the Punjab Protected Areas Act 2020, which provide the legislative foundation for wildlife conservation, habitat restoration, and eco-tourism development.

In line with these objectives, the Punjab Wildlife & Parks Department has initiated the **ADP Project "Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)"**, which aims to transform Safari Zoo into a world-class facility. The project includes development of modern animal enclosures, eco-friendly visitor facilities, digitalized systems, landscaping, immersive exhibits, and supporting infrastructure that meets international zoo management and animal welfare standards.

To ensure **timely execution, quality assurance, contract management, and technical supervision**, the Department requires the services of a qualified **Resident Supervision Consultant** for oversight of construction, materials testing, project management, and safeguard compliance.

Implementing Agencies

- **Sponsoring Agency:** Forestry, Wildlife & Fisheries Department, Punjab
- **Execution Agency:** Punjab Wildlife & Parks Department
- **Operations and Maintenance Agency:** Punjab Wildlife & Parks Department

Project Location and Geographical Area

The project will be implemented at **Safari Zoo, Lahore, Punjab**.

2. Objectives

The primary objectives of hiring a Resident Supervision Consultant are to:

- Supervise and ensure quality execution of all **civil, structural, electrical, mechanical, horticulture, and zoo-specific works** in accordance with approved designs, BoQs, and technical specifications.
- Safeguard **animal welfare** and integrate zoo/wildlife management considerations during construction and development.
- Provide strong **contract and project management support** to achieve timely and dispute-free completion.
- Guide **landscaping, habitat enrichment, and horticultural works** to create naturalistic enclosures and green visitor spaces.



- Maintain **quality assurance** through inspection, laboratory testing, and verification of all materials and workmanship.
- Ensure **compliance with environmental and social safeguard requirements** throughout implementation.
- Provide technical guidance, documentation, and reporting to the Client Department.
- Verify, certify, and document contractors' works, interim payments, and final completion.

3. Scope of Work

The Resident Supervision Consultant shall act on behalf of the Punjab Wildlife & Parks Department as the Client's Resident Engineer and will be responsible for supervision, quality control and safeguard compliance. Key responsibilities include:

1. Construction Supervision and Quality Assurance

- Supervise all civil, structural, architectural, electro-mechanical, landscaping, and zoo-specific works to ensure compliance with approved drawings, BoQs, standards, and specifications.
- Oversee the construction of animal enclosures, visitor facilities, and infrastructure, ensuring safety, durability, and quality workmanship.
- Monitor contractors' work programs, productivity, and adherence to timelines; recommend corrective measures in case of delays or deficiencies.
- Review and approve contractors' working drawings, material submissions, and method statements.
- Conduct laboratory and field testing of materials, approve sources of supply, and ensure QA/QC compliance at all stages.

2. Animal Welfare & Zoo-Specific Requirements

- Ensure that design and construction of animal enclosures, holding areas, and associated facilities conform to international zoo and animal welfare standards.
- Oversee development of habitats, enrichment features, and biosecurity measures to minimize stress and ensure well-being of captive species.
- Guide construction of quarantine facilities, veterinary areas, water bodies, shelters, and barriers to ensure animal safety and security.

3. Landscaping, Habitat Enrichment & Horticulture Works

- Supervise landscaping, horticultural development, and creation of naturalistic animal habitats.
- Recommend and approve plant species suitable for climate, soil conditions, and compatibility with animal welfare (dietary and enrichment aspects).

- Ensure sustainable irrigation, soil preparation, and vegetation management in enclosures and public spaces.
- Support development of green visitor spaces, shaded areas, and ecological plantation drives.

4. Electro-Mechanical (E/M) Systems Supervision

- Oversee installation and commissioning of electro-mechanical systems including electrical networks, lighting, HVAC, firefighting, water supply, sanitation, drainage, and waste management systems.
- Ensure safety standards, energy efficiency, and zoo-specific requirements such as animal house heating/cooling, water recirculation, and life-support systems.
- Approve shop drawings, equipment, and test reports before operationalization.

5. Surveying, Measurement & Verification

- Carry out topographic checks, layout verifications, and alignment of civil works.
- Maintain accurate records of site surveys and provide as-built documentation.
- Verify contractors' quantities and measurements for payment certification.
- Validate variation works through site-based verification, ensuring transparency and cost accuracy.

6. Materials & Testing Management

- Establish quality control procedures for all materials.
- Conduct or witness testing of soil, concrete, aggregates, asphalt, and other materials.
- Maintain proper documentation of all laboratory and field test results for audits and quality checks.

7. Site Supervision, Verification & Certification

- Issue technical site instructions to contractors as required for quality and safety compliance.
- Verify and certify interim payment certificates (IPCs) and final payment certificates (FPCs) based on verified works.
- Document approved variations, supplementary drawings, and site clarifications in line with project needs.
- Assist the Client in verifying that the contractor's outputs match specifications and approved BoQs.

8. Records, Reporting & Communication



- Maintain complete site-level records, including daily inspection logs, photographs, test results, and progress data.
- Prepare and submit monthly progress reports highlighting achievements, issues, and recommendations.
- Provide quarterly monitoring and safeguard compliance reports.
- Facilitate audits, donor/government reviews, and inspections by providing accurate records and technical presentations.

9. Environmental & Social Safeguard Compliance

- Ensure compliance with environmental management plans, occupational health and safety standards, and social safeguard requirements.
- Monitor contractor performance with respect to environmental protection, waste disposal, and community safety.
- Prepare safeguard compliance and monitoring reports for submission to the Client.

10. Completion & Defect Liability Period Support

- Conduct joint inspections with the Client to verify substantial and final completion.
- Certify contractors' final accounts and completion reports.
- Provide support during defect liability period, including inspections, reporting, and verification of rectifications.

4. Role of the Client

The Punjab Wildlife & Parks Department will provide oversight and policy guidance. Its role includes:

- Ensuring financial approvals and managing payment processes.
- Facilitating coordination with stakeholders to avoid site disputes.
- Monitoring consultant's deliverables through reports and meetings.
- Providing required support in risk management and issue resolution.
- Reviewing and approving deliverables for compliance with departmental standards and objectives.

5. Duration of the Assignment

The Resident Supervision Consultancy assignment shall be for **15 months**, commencing from contract signing and covering construction supervision, reporting, and defect liability support.



6. Deliverables

The Resident Supervision Consultant shall provide the following deliverables:

Sr. No.	Deliverable	Timeline
01	Full-time resident supervision and monthly progress reports	15 months
02	Quarterly monitoring and safeguard compliance reports	Throughout project duration
03	Final project completion report	Upon completion
04	Assistance during defect liability inspections and rectification reports	As per contract schedule

7. Qualification and Experience of the Firm / Core Team

The consultancy firm must have proven experience in **construction supervision of wildlife parks, zoos, eco-tourism, and large-scale civil infrastructure projects.**

The following experts shall be mobilized:

Sr. No.	Position	Min. Years of Experience	No.	Staff-Months	Minimum Qualification	Job Description
1	Resident Engineer	15	1	15	B.Sc. Civil Engineering (PEC Registered)	Lead all supervision, ensure compliance with designs & QA/QC standards.
2	Resident Wildlife Expert	10	1	10	M.Sc. Zoology / Wildlife Management	Ensure animal welfare and zoo-specific construction compliance.
3	Resident Horticulture Expert	10	1	8	M.Sc. Horticulture / Forestry / Botany	Supervise landscaping, plantation, and habitat creation.
4	ARE (Civil)	7	1	15	B.Sc. Civil Engineering (PEC Registered)	Assist in supervision of civil & structural works.
5	ARE (Electrical/Mechanical)	7	1	12	B.Sc. Electrical/Mechanical Engineering	Supervise E/M systems (power, HVAC, fire safety).

Sr. No.	Position	Min. Years of Experience	No.	Staff-Months	Minimum Qualification	Job Description
6	Material Engineer	7	1	12	B.Sc. Civil/Materials Engineering	Manage material quality, testing & approvals.
7	Surveyor	5	1	4	Diploma of Associate Engineer (Civil/Survey)	Carry out surveys, leveling, and layout verification.
8	Quantity Surveyor	7	1	15	B.Sc. Civil / Diploma in Quantity Surveying	Prepare & verify BoQs, IPCs, and material records.
9	Lab Technician	5	1	6	Diploma in Civil/Materials Technology	Perform lab and field testing of materials.

8. Professional Liability of Consultant

The Consultant shall be liable for errors, omissions, or negligence as defined in **Rule 54 of the Punjab Procurement Rules, 2014 (amended to date)**. All reports, data, and deliverables shall remain the property of the Punjab Wildlife & Parks Department.



	GOVERNMENT OF THE PUNJAB PLANNING & DEVELOPMENT BOARD FW&F SECTION
MINUTES OF 25TH PDWP MEETING HELD ON 05.09.2025	
Agenda Item No.01	Implementation of Master Plan of Safari Zoo, Lahore (Phase-II) ADP No. 2604 (New)
Date & Time:	05.09.2025 (Friday) At 10:15 A.M
Venue:	AKS Auditorium P&D Board
Participants:	List Attached

Introduction:

The Sr. Chief (Env. &CC.), P&D Board briefed the forum that the project titled "Implementation of Master Plan of Safari Zoo, Lahore (Phase-II)" has been included in the ADP 2025-26 under GS. No. 2604 as a new scheme. She further added that the Forestry, Wildlife & Fisheries Department has submitted the PC-I for the project, with an estimated cost of Rs. 6,999.424 million and a gestation period of 24 months (till June 2027), for the consideration of the PDWP.

2. She further informed that, through the implementation of this project, the AD aims to modernize zoo infrastructure and operations with advanced designs, technologies, and amenities in line with international standards. The project focuses on promoting conservation by combining recreation with wildlife-based attractions, positioning the zoo as a national model of innovation, education, species care, and sustainable tourism. It also emphasizes ecological restoration through greenery and eco-sensitive landscaping, along with improved housing, services, and management zones for staff welfare. The AD also plans the construction of new facilities, including a Hippopotamus House, Crocodile Pond, Theme Park, Immersive Education and Experience Center and a Walk-through Bird Aviary, along with the up-gradation and rehabilitation of existing facilities such as the Aquarium, local and exotic ungulate safaris, lake, and the Residential Colony.

Discussion:

3. The Director General, Wildlife & Parks, briefed the forum on the scope of the project and informed that, following the successful implementation of Phase-I of the Safari Zoo, Lahore, the Wildlife Department has planned Phase-II, which will introduce advanced facilities for conservation, education, awareness, and recreation in line with global best practices. He added that a key lesson learned from Phase-I was the overwhelming public response to the fish aquarium established during that phase. The aquarium is also one of the primary contributors to the high revenue generated by Safari Zoo, Lahore. In view of this, the department has proposed to expand the aquarium in Phase-II by introducing additional aquatic species. The existing aquarium covers an area of 8,000 sq. ft., whereas the proposed facility will span 30,000 sq. ft., making it one of the largest in Southeast Asia. Furthermore, the current shark tank has a capacity of 6,500 gallons, housing four sharks, whereas in the proposed expansion, the shark tank

SR. CHIEF (ENV.&CC)
P&D BOARD

will have a capacity of 250,000 gallons and will house more than 30 dwarf sharks of three different species, along with various other fish species.

4. While discussing the component of the 'Immersive Education and Experience Centre', the forum inquired whether the proposed component involved the use of immersive holographic content. The Secretary, Forestry, Wildlife & Fisheries Department responded that the proposed component would utilize hi-tech projectors, LEDs, projection mapping, immersive sound, visuals, and other effects to create an immersive experience.

5. The forum inquired about the operations and maintenance of Safari Zoo and who would be responsible for its management. The Secretary, FWF Department responded that the department would outsource the facilities at Safari Zoo, Lahore, as was done in Phase-I. The Director General, Wildlife & Parks, further added that under the Financial Delegation of Powers 2016, the Wildlife Department is authorized to lease out any zoo or park for a period of 10 years. Using these powers, the AD will lease out the facilities proposed under Phase-II of the project.

6. The forum observed that the price quoted by the AD for a 260 HP tractor was Rs. 4.00 million, whereas the attached quotation reflected Rs. 3.30 million, inclusive of 14% GST. The Director General, Wildlife & Parks, explained that the procurement is proposed for the second year of execution; therefore, anticipated price escalation has been incorporated into the estimated cost. The forum directed the AD to rationalize the quoted prices, as per quotes.

7. While discussing the theme park, the Director General, Wildlife & Parks, informed that the most expensive item in the theme park is the provision of a roller coaster. The Secretary, FWF Department added that the ticket price for the theme park would be higher. The forum inquired about the project's business model and observed that if ticket prices are set too high, the public may not be able to afford them, which could affect the project's sustainability. The Director General, Wildlife & Parks, responded that, at present, the department is at a breakeven point regarding the leasing of the zoo in Phase-I, amounting to Rs. 130.500 million. The forum noted that once these facilities are developed, the AD will be in a better position to generate additional revenue.

8. The forum further directed the department to ensure that eco-friendly materials will be used for the construction of huts and lodges, both inside and outside the wilderness area. Furthermore, the facades of these huts should be designed in harmony with eco-tourism principles. The forum also directed that the area surrounding the theme park should be maintained as green space, as depicted in the master plan.

9. The forum inquired about the sewerage plan of the Safari Zoo, Lahore, specifically whether the existing system was sufficient or if modifications would be required. The Secretary, FWF Department, responded that since multiple facilities are being established in the Safari Zoo—such as an immersive cinema, a wildlife hospital, and a theme park—the funds allocated by the department for sewerage, amounting to

Rs. 32.299 million, would only cover the sewerage system within the proposed residential area. He further added that the department would work out the cost required for the sewerage system of the entire Safari Zoo, Lahore, and that the expense would be met within the overall cost already presented before the PDWP. The forum agreed with the proposal of the department.

10. The Director General, Wildlife & Parks, informed that three types of water bodies are planned for the Safari Zoo, including the already existing lake, which is naturally replenished through seepage. The new facilities will comprise a crocodile pond and a hippo pond (within the aquarium). The forum inquired about the mechanism for changing water in these facilities, to which the Director General responded that the cost for installing a drainage and sump system has been incorporated in the project.

11. The forum further inquired about accessibility for elderly and differently-abled persons in the zoo. In response, the Director General, Wildlife & Parks, informed that designs for washrooms and ramps for these groups will be incorporated into the detailed estimates. The forum directed the AD to ensure that ramps and washrooms for the elderly and persons with special needs are included in the zoo's design to facilitate easy access.

12. A member of the forum noted that if the department has completed Phase-I of the project, the PC-IV should be submitted to the DG (M&E) for evaluation. In response, the Director General, Wildlife & Parks, clarified that Phase-I has only been completed to the extent of civil works, while the procurement of animals is still pending; therefore, the PC-IV cannot be submitted at this stage. The forum advised the AD to design the procurement schedule in a way that aligns with the construction activities.

13. The human resource component of the project was also discussed. The Director General, Wildlife & Parks, stated that only one post of Project Director at PPS-10 has been proposed in the PC-I for project implementation. The forum agreed with the single project post proposed by the AD.

Decisions:

4. After detailed deliberations, the forum unanimously approved the scheme and following decisions were made:

- i. The scheme was approved at a cost of Rs. 6,963.192 million till June 2027 subject to fulfillment of all codal, legal / procedural formalities by the Sponsoring Department as well as Executing Agencies.
- ii. The AD will develop a comprehensive business model for the entire project.
- iii. The AD will ensure the use of eco-friendly materials in the construction of wooden lodges, both inside and outside the jungle area, with facades designed to align with the concepts of eco-tourism and biodiversity.
- iv. The AD will ensure that the area surrounding the 'Theme Park' is developed

as a green zone, in accordance with the master plan of Safari Zoo, Lahore.

- v. The procurement schedule of the project in the PC-I should be designed to synchronize with the construction activities.
- vi. Ramps and washrooms for the elderly /persons with special needs should be included in the zoo's design to ensure easy access.
- vii. The AD shall recheck the price of each item against its quotation to avoid cost escalation.
- viii. All vehicles procured by the AD shall be properly branded as the property of the FWF Department.
- ix. AD to comply with the observations raised by the Technical section of the P&D Board.
- x. ToRs of consultancy shall be vetted / cleared by the Consultancy section of the P&D Board.
- xi. The AD to revise the PC-I accordingly and upload it to SMDP Portal.

The meeting concluded with a vote of thanks

wpoluo
SR. CHIEF (ENV.&CC)
P&D BOARD

LIST OF PARTICIPANTS**25th PDWP MEETING, FY 2025-26****Dated: 05.09.2025**

Name of the Officer		Designation / Department
PLANNING AND DEVELOPMENT BOARD		
1.	Dr. Naeem Rauf	Chairman P&D Board (In Chair)
2.	Mr. Rafaqat Ali	Secretary P&D Board / Member (Env. &CC)
3.	Mr. M. Masood Anwar	Chief Economist
4.	Mr. Muhammad Ajmal Bhatti	Member (ID / Energy)
5.	Mr. Yawar Hussain	Member (Education)
6.	Mr. Shafaat Ali	Member (Health)
7.	Mr. Khawar Kamal	Member (LG&CD /UD)
8.	Mr. Sohail Rauf	Sr. Chief (C&M)
9.	Ms. Nadia Shafiq	Sr. Chief (Env.&CC.)
10.	Mr. Abid Inanyat Sheikh	Chief (Technical)
11.	Mr. Musa Raza	Assistant Chief (Coord-II)
12.	Ms. Rabbia Ali	Assistant Chief (FW&F)
13.	Ms. Sania Sajjad	Planning Officer (FW&F)
PLANNING AND DEVELOPMENT BOARD (SOUTH PUNJAB)		
14.	Mr. Jam Awais Mustafa	Assistant Chief
15.	Mr. Muhammad Rashid	Assistant Chief
16.	Ms. Nadia Zia	Assistant Chief
URBAN UNIT		
17.	Mr. Aleem Akram	SRA
PUNJAB ECONOMIC RESEARCH INSTITUTE (PERI)		
18.	Dr. M. Shahzad Sardar	Research Economist
DIRECTORATE OF MONITORING & EVALUATION (DG M&E)		
19.	Mr. Ghazanfar Mubin	Director Evaluation
FORESTRY, WILDLIFE & FISHERIES DEPARTMENT		
20.	Mr. Muddasir Riaz Malik	Secretary, FWF
21.	Mr. Mubeen Ilahi	Director General (Wildlife)
22.	Mr. Junaid Nadeem	Deputy Chief Wildlife Rangers (Headquarter)
FINANCE DEPARTMENT		
23.	Mr. M. Adnan Zahid	AS (Development)

IMPLEMENTATION OF MASTER PLAN OF SAFARI ZOO LAHORE (PHASE-II)**ANNOTATED REPLY ON DECISIONS OF PDWP MEETING HELD ON 05.09.2025**

Sr. No.	Observation	Reply
1.	The scheme was approved at a cost of Rs.6,963.192 million till June 2027 subject to fulfillment of all codal, legal / procedural formalities by the Sponsoring Department as well as Executing Agencies.	Noted.
2.	The AD will develop a comprehensive business model for the entire project.	Noted for compliance.
3.	The AD will ensure the use of eco-friendly materials in the construction of wooden lodges, both inside and outside the jungle area, with facades designed to align with the concepts of eco-tourism and biodiversity.	Noted for compliance.
4.	The AD will ensure that the area surrounding the 'Theme Park' is developed as a green zone, in accordance with the master plan of Safari Zoo, Lahore.	Noted for compliance.
5.	The procurement schedule of the project in the PC-I should be designed to synchronize with the construction activities.	Noted for compliance.
6.	Ramps and washrooms for the elderly / persons with special needs should be included in the zoo's design to ensure easy access.	Noted for compliance.
7.	The AD shall recheck the price of each item against its quotation to avoid cost escalation	Noted.
8.	All vehicles procured by the AD shall be properly branded as the property of the FWF Department.	Noted for compliance.
9.	AD to comply with the observations raised by the Technical section of the P&D Board	Noted.
10.	TORs of consultancy shall be vetted / cleared by the Consultancy section of the P&D Board.	TORs prepared and accordingly vetted by Consultancy section of P&D Board. Vetted TORs attached at Annexure-18 in the finalized PC-I scheme.
11.	The AD to revise the PC-I accordingly and upload it to SMDP Portal.	Noted. PC-I amended in light of decisions of PDWP meeting and accordingly uploaded on SMDP Portal.

QUOTATIONS

CHILDREN PLAY AREA



Village Heyr, 12-Km Bedian Road, Lahore

Tel: 042 35600165-8, Cell: 0300-8440-472 Fax: 042 35600116

Email: sale@greenearthrecycling.com, earth@greenearthrecycling.com

URL: www.greenearthrecycling.com

Price List of Green RPC Products (for Registered Person)				
Fig No	Product Name	Rate	Sales Tax (18%)	Net Price (Rs.)
1	Children Outdoor Play set	690,750	124,335	815,085
2	Children Outdoor Play set	765,000	137,700	902,700
3	Children Outdoor Play set	432,000	77,760	509,760
4	Children Outdoor Play set	450,000	81,000	531,000
5	Children Outdoor Play set	485,000	87,300	572,300
6	Children Outdoor Play set	3,150,000	567,000	3,717,000
7	Monster Truck	472,500	85,050	557,550
8	Merry Go Round, Dia 10ft	168,750	30,375	199,125
9	Garden Bench 4ft long with arms	17,550	3,159	20,709
10	Garden table with 2 benches 4ft with arms	51,750	9,315	61,065
11	Straight bench 6ft long	23,400	4,212	27,612
	Straight bench 4ft long	14,850	2,673	17,523
12	Garden Bench 4ft long	21,150	3,807	24,957
13	Classic Picnic table	91,350	16,443	107,793
14	Picnic table in round shape	101,250	18,225	119,475
15	Picnic table in hexagon shape	90,000	16,200	106,200
16	Garden table 4ft x 4ft with 2 benches 4ft	87,300	15,714	103,014
17	Picnic area Hexagonal Shape with round table and dustbin	421,200	75,816	497,016
18	Picnic area complete with Plastic base (10ft x 10ft)	522,000	93,960	615,960
19	Plastic Planks		On Demand	
20	Kiosk 6ft x 6ft with sloping roof	333,000	59,940	392,940
	Kiosk 6ft x 6ft with canopy roof	383,000	68,940	451,940
21	Bus Stop 8ft x 12ft with 4 waiting benches	409,500	73,710	483,210
22	Check Post with sloping roof	209,250	37,665	246,915
	Check Post with canopy roof	213,750	38,475	252,225
23	Garden table 3ft x 3ft with 4 chairs	88,200	15,876	104,076
24	Dining set with 4 chairs	59,850	10,773	70,623
25	Dining set with 6 chairs	82,350	14,823	97,173
26	Easy chair	18,000	3,240	21,240
27	Chair with armrest	18,000	3,240	21,240
28	Rocking Chair	20,500	3,690	24,190
29	Two Seater chair	28,800	5,184	33,984
30	Chair	13,500	2,430	15,930
31	Trellis with 7' opening	105,750	19,035	124,785
32	Toilet with sanitary fittings	350,000	63,000	413,000
33	Planter	7,650	1,377	9,027
34	Planter	7,650	1,377	9,027
35	Ice Cream & Milk Crate holes on base and sides		On Demand	
	Ice Cream & Milk Crate solid base and sides		On Demand	
36	Muskoka Chair	42,750	7,695	50,445
37	Pool/ beach chair	29,250	5,265	34,515
38	Garden table 26" x 26" with 2 benches 13" x 26"	31,500	5,670	37,170
39	Table 22" x 48" with two benches 13" x 48"	56,250	10,125	66,375
40	School children Desk & Bench		On Demand	
41	School children Desk & Bench with Back		On Demand	
42	See Saw	42,750	7,695	50,445
43	Swing Chair	112,500	20,250	132,750
44	Dustbin 1.5ft x 3ft with plastic base	34,200	6,156	40,356
	Dustbin 1.75ft x 3.5ft with plastic base	40,500	7,290	47,790
45	Dustbin 1.5ft x 3ft with steel base	21,600	3,888	25,488
	Dustbin 1.75ft x 3.5ft with steel base	27,000	4,860	31,860
46	Garden bench 6ft long	30,150	5,427	35,577
47	Main gate per sq.ft.		On Demand	
48	Plain Plastic sheets		On Demand	
49	Two swings with plastic pillars	119,250	21,465	140,715
50	Baby Playset with 4ft slide	52,650	9,477	62,127
51	Baby Playset with 2 slide	356,850	64,233	421,083
52	RPC Manhole Cover & Frame 24" Dia Round Shape Black color	8,900	1,602	10,502
53	RPC Manhole Cover & Frame 24" x 24" Square Shape Black color	8,900	1,602	10,502
54	RPC Manhole Cover & Frame 18" x 18" Square Shape Black color	7,300	1,314	8,614
55	RPC Gully Grating (Light Duty) Cover & Frame 24" x 18" Rectangular Shape Black color	7,300	1,314	8,614
56	Steel Reinforced Plastic Composites Pallet (Dimensions: 1200 mm x 1000 mm x 155)	12,500	2,250	14,750
57	Poly-Al Corrugated Tuff Board		200/ sq ft	
58	RPC Corrugated Tuff Board		200/ sq ft	



Product Introduction

Green Earth Recycling (Pakistan) has devised a high quality environment friendly and long lasting wood alternative by utilizing a winning combination of material and technology. **Green Plastic Wood** is composed of a unique blend of recycled polyethylene plastic such as shopping bags and plastic scraps. Strong and impact resistant with the beauty and finish of natural wood, it is maintenance-free, insect, termite, and water proof. In addition, it also resists rotting,



① Play Area



③ Play Area



④ Play Area

TRACTOR

MF 260 Tractor Price Model 2025:

Model	New Price with 14% GST From Jan 2025
MF 260 2WD	Rs. 2,952,600
MF-260 Deluxe (Turbo) 60HP	Rs. 3,231,900 (Without Weights) Rs. 3,363,000 (With Weights)

New price effective from 1-Jan-2025.

Check Also : [Massey Ferguson All Models Prices](#)



ROUGH COST ESTIMATES

ABSTRACT

(Rs. in million)

Sr. No.	Description	PC-I Cost
		Amount
1.	Construction of Boundary Wall	8.788
2.	Construction of Approach Path to Residences	2.756
3.	Construction of Staff Residencies	242.977
4.	Construction of Birds Aviary	813.273
5.	Construction of Hippo Housing	79.080
6.	Construction of Crocodile Pond	76.790
7.	Construction of Pakistani Ungulates Housings	45.708
8.	Construction of African Ungulates Housings	83.300
9.	Rehabilitation of Existing Lake	70.187
10.	Woodland Lodges	52.649
11.	Approach Track and Outdoor sitting of Woodland Lodges	5.520
12.	Rock Climbing Wall & Zip Line	47.620
13.	Sewerage System	237.942
14.	Road Carpeting	10.301
15.	Provision of Small Structures	2.256
	Total:	1779.147

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF BOUNDARY WALL AT RESIDENCIES AT SAFARI ZOO LAHORE (LENGTH= 900 RFT)										
#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount	Remarks
				B.P	E.I	P.H	S.G			
1	2	3	4	5	6	7	8	9	10	11
	Construction of Boundary Wall	900	R.Ft	9299				9299	8,369,100	
Total									8,369,100	
Add 5% PRA Charges									418,455	
Grand Total									8,787,555	
Cost in Million									8.788	

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF APPROACH PATH AT SAFARI ZOO LAHORE

#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount
				B.P	E.I	P.H	S.G		
1	2	3	4	5	6	7	8	9	10
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) depth upto 5 ft (1.5m). Ordinary Soil (L=570', W=12')	5700	Cft					17.08	97,356
2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	1995	Cft					126.24	251,849
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 3: 6 (3" thick)	1995	Cft					410.47	818,888
4	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/8" (10 mm) thick	1140	P.Sft					46.44	52,942
5	Providing and laying Tuff Pavers, having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured) 60-mm thick	6840	P.Sft					205.25	1,403,910
Total									2,624,944
Add 5% PRA Charges									131,247
Grand Total									2,756,191
Cost in Million									2.756

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF STAFF RESIDENCES AT SAFARI ZOO LAHORE (30150 SFT)

#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount
				B.P	E.I	P.H	S.G		
1	2	3	4	5	6	7	8	9	10
1	Construction of Deputy Chief Wildlife Ranger Residence (BS-18)	2850	P.Sft	5536	377	198		6111	17,416,350
	Construction of Compound wall	285	P.Sft	3451				3451	983,535
	Add strip/isolated column footing	2850	P.Sft	1057				1057	3,012,450
	Total								21,412,335
	Add 5% PRA Charges								1,070,617
	G.Total								22,482,952
2	Construction of Assistant Chief Wildlife Ranger Residence 2 No.s (1650 Sft Each) (BS-17)	3300	P.Sft	5551	377	198		6126	20,215,800
	Construction of Compound wall	330	P.Sft	3451				3451	1,138,830
	Add strip/isolated column footing	3300	P.Sft	1057				1057	3,488,100
	Total								24,842,730
	Add 5% PRA Charges								1,242,137
	G.Total								26,084,867
3	Construction of Vet Officers 3 No.s (1650 Sft) (BS-17)	4950	P.Sft	5551	377	198		6126	30,323,700
	Construction of Compound wall	285	P.Sft	3451				3451	983,535
	Add strip/isolated column footing	2850	P.Sft	1057				1057	3,012,450
	Total								34,319,685

	Add 5% PRA Charges								1,715,984
	G.Total								36,035,669
4	Construction of (B.P.S 11-14) 6 No.s (1360 Sft)	8160	P.Sft	5933	377	198		6508	53,105,280
	Construction of Compound wall	495	P.Sft	3451				3451	1,708,245
	Add strip/isolated column footing	8160	P.Sft	1057				1057	8,625,120
	Total								63,438,645
	Add 5% PRA Charges								3,171,932
	G.Total								66,610,577
5	Construction of (B.P.S 1-10) 11 No.s (990 Sft)	10890	P.Sft	6048	377	198		6623	72,124,470
	Construction of Compound wall	1089	P.Sft	3451				3451	3,758,139
	Add strip/isolated column footing	10890	P.Sft	1057				1057	11,510,730
	Total								87,393,339
	Add 5% PRA Charges								4,369,667
	G.Total								91,763,006
Grand Total									242,977,071
Cost in Million									242.977

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF BIRDS AVIARY AT SAFARI ZOO LAHORE

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
	Construction of Birds Aviary				
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) depth upto 5 ft (1.5m). Ordinary Soil				
	Main Aviary (L=1700 Rft) (Area= 178865 Sft)	C.Ft	25500	17.08	435,540
	Columns Foundation				
	Elevated pathway bridge (L=500 Rft) 71 Foundations (5'x13'x3'=195 Cft)	C.Ft	9945	17.08	169,861
	Stair Case 2 No.s	C.Ft	450	17.08	7,686
	150' Dia Aviary perimeter (L=X472'= 1416')	C.Ft	5664	17.08	96,741
	Glass House (L=90 W=50')	C.Ft	7000	17.08	119,560
	Pathways inside the Aviary (L=1600' W=8' AREA= 12800 SFT)	C.Ft	19200	17.08	327,936
	Pathways outside the Aviary (L=1840' W=5' AREA= 9200 SFT)	C.Ft	22080	17.08	377,126
	Kiosk (L=550' W=12.5' AREA= 6875 SFT)	C.Ft	6600	17.08	112,728
2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.				
	Toe walls of Aviary (L=1416+315+220=1951' W=3' D=0.33')	C.Ft	1931.49	126.24	243,831
	Toe walls of Pathways (L=1600+1840=3440'X2=6880' W=3' D=0.33')	C.Ft	6811.20	126.24	859,846
	Mid of the Pathways (inside=12800 Sft outside=9200 Sft Thickness=0.33')	C.Ft	7260.00	126.24	916,502
	Kiosk (L=550' W=12.5' AREA= 6875 SFT)	C.Ft	2994.75	126.24	378,057
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 3: 6 (3" thick)				
	Elevated pathway bridge (L=500 Rft) 51 Foundations (5'x13'x0.25'=16.25 Cft)	C.Ft	828.75	410.47	

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
					340,177
	Stair Case 2 No.s	C.Ft	25.00	410.47	10,262
	Toe walls of Aviary (L=1416+315+220=1951' W=3' D=0.25')	C.Ft	1931.49	410.47	792,819
	Toe walls of Pathways (L=1600+1840=3440'X2=6880' W=3' D=0.25')	C.Ft	6811.20	410.47	2,795,793
	Mid of the Pathways (inside=12800 Sft outside=9200 Sft Thickness=0.25')	C.Ft	7260.00	410.47	2,980,012
	Kiosk (L=550' W=12.5' AREA= 6875 SFT)	C.Ft	2994.75	410.47	1,229,255
4	Pacca brick work in foundation and plinth in:- Ratio 1:6				
	Toe walls of Aviary (L=1700' W=1.5' D=6')	C.Ft	15300.00	342.44	5,239,332
	Toe walls of Aviary (L=1416+315+220=1951' W=1.5' D=6')	C.Ft	17559.00	342.44	6,012,904
	Toe walls of Pathways (L=1600+1840=3440'X2=6880' W=1.5' D=3')	C.Ft	30960.00	342.44	10,601,942
	Kiosk (L=550' W=12.5' AREA= 6875 SFT)	C.Ft	4950.00	342.44	1,695,078
5	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/8" (10 mm) thick				
	Toe walls of Geodesic Dome Aviary (L=1416 D=3')	P.Sft	8496.00	46.44	394,554
	Toe walls of Pathways (L=1600+1840=3440'X2=6880' W=1.5' D=1')	P.Sft	10320.00	46.44	479,261
6	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a)&(b)above not requiring form work (i.e. horizontal shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4				
	Elevated pathway bridge (L=700 Rft) 71 Foundations (5'x13'x0.75'=48.75 Cft)	C.Ft	3461.25	613.45	2,123,304
	Padestial upto Neck (NSL)	C.Ft	1109.38	613.45	680,546
	Columns upto 18 feet height	C.Ft	3993.75	613.45	Page 141

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
					2,449,966
	Beams 700 Rft on both sides	C.Ft	2100.00	613.45	1,288,245
	Deck Slab	C.Ft	2500.00	613.45	1,533,625
	Stair Case 2 No.s	C.Ft	464.00	613.45	284,641
	Foundations/Columns (No.s=130 L=6' LXW=0.75x1) for Dome	C.Ft	2665.00	613.45	1,634,844
	Plinth Beams (L=1951' W=0.75' D=1.5') for Dome	C.Ft	2194.88	613.45	1,346,446
7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (Grade-60)				
	Elevated pathway bridge (L=500 Rft) 71 Foundations (5'x13'x0.75'=48.75 Cft)	1KG	12563.52	299.74	3,765,790
	Padestial upto Neck (NSL)	1KG	4026.77	299.74	1,206,984
	Columns upto 18 feet height	1KG	14496.37	299.74	4,345,142
	Beams 700 Rft on both sides	1KG	7622.50	299.74	2,284,770
	Deck Slab	1KG	7653.06	299.74	2,293,929
	Stair Case 2 No.s	1KG	1684.21	299.74	504,825
	Foundations/Columns (No.s=130 L=6' LXW=0.75x1) for Dome	1KG	8158.16	299.74	2,445,328
	Plinth Beams (L=1951' W=0.75' D=1.5') for Dome	1KG	9950.61	299.74	2,982,596
8	Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft.(15 m). 1' depth.				
	Pathways inside the Aviary (L=1600' W=8'), Pathways inside the Aviary (L=1840' W=5')	C.Ft	22000.00	17.54	385.880

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
9	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect With painting. Toe walls of Pathways (L=1600+1840=3440'X2=6880')	R.Ft	6880.00	653.20	4,494,016
10	Providing and laying Tuff Pavers, having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured) 60-mm thick Mid of the Pathways (inside=12800 Sft outside=9200 Sft Total=22000 Sft)	P.Sft	22000.00	205.25	4,515,500
11	Turfing slopes of banks or lawns with Daka grass carpet including ploughing, laying, setting and watering.	P.Sft	166865.00	90	15,017,850
12	Construction of Water bodies	Each	5.00	1,850,000	9,250,000
13	Logs,Rocks	1	1.00	1,500,000	1,500,000
14	DOMESTRUCTURE: Design, Supply & Fabrication of a Spherical/Geodesic Dome Structural Framework: Material: Round MS (Mild Steel) Pipe as Strut. Size: 59x2mm x 76x2mm, 88x3mm, 88x4mm (As per design) Connections: Bolted, designed as per structural load calculations and approved drawings. Base Plates: Material: MS Plates with Stool Pipe & Stiffeners. Dimensions: As per design. Anchors: Each base plate to include 4-6 foundation anchors for secure installation. Fabrication: All fabrication including cutting, sizing, bending, drilling, grinding, notching etc. as per design drawings. Paint & Packaging: Tagging/Punching on Members & Painting including surface treatment cleaning & painting 2-coats of anti-rust enamel paint (Dark-Grey Color)				

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
	150' Dia Aviary perimeter (A=17670 Sft Surface Area=70683) (1 No.s)	P.Sft	70683.75	950	67,149,563
15	Installation: Loading, Unloading, Shifting, Lifting, Tightening & Fixing of complete dome with heavy duty crane including anchoring, tightening etc at site as per required structure dimension etc (Structure Only).	P.Sft	70683.75	85	6,008,119
16	Providing and fixing of chain-link ¾"x3/4" mash 14 SWG (G.I) including welding fixing on L-iron frame ,complete in all respects.				
	150' Dia Aviary perimeter (A=17670 Sft Surface Area=70683) (1 No.s)	P.Sft	35342.00	420	14,843,640
	Main Aviary				
17	Installation: Loading, Unloading, Shifting, Lifting, Tightening & Fixing of complete dome with heavy duty crane including anchoring, tightening etc at site as per required structure dimension etc (Structure Only).	P.Sft	178865.00	550	98,375,750
18	Providing and fixing of china steel wire rope (G.I)3/8" and ¼" dia for fixing of pole and crosses fixing of chain link i/d binding clips.	R.Ft	68250.00	195	13,308,750
19	Clumps for 3/8" and ¼" dia wire rope	EACH	10250.00	125	1,281,250
20	Providing and fixing of chain-link ¾"x3/4" mash 14 SWG (G.I) including welding fixing on L-iron frame ,complete in all respects.	P.Sft	267065.00	420	112,167,300
	Glass House				
21	Installation: Loading, Unloading, Shifting, Lifting, Tightening & Fixing of complete Glass House with heavy duty crane including anchoring, tightening etc at site as per required structure dimension etc (Structure Only).	P.Sft	4500.00	13,650	61,425,000
22	Providing and fixing of chain-link ¾"x3/4" mash 14 SWG (G.I) including welding fixing on L-iron frame ,complete in all respects.	P.Sft	5638.00	420	2,367,960
23	Provision of air conditioning/HVAC	Job	1.00		4,760,000
	Kiosk & Sitting				
24	Kiosk 2 No.s	P.Sft	500.00	2,740	1,370,000
25	Providing and laying Tuff Pavers, having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require	P.Sft	6700.00	205	1,375,175

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
	slope . complete in all respect. (50% Grey / 50% Coloured) 60-mm thick				
	Water Fall				
26	Solid Artistic Cladding Work using fine china mesh, #3 mild steel and mortar 1:2:0.5 (Cement, Sand Dust, Sand) Khaaka Plaster of 5" to 10" multiple layers as per requirement on site and design. Complete natural look to be achieved by artist. Surface area to be calculated for billing. The Work includes getting rockery shapes using fine china mesh and #3 steel..	P.Sft	4908.75	2,270	11,142,863
27	Provision and Fixing of Single or Multiple Layers (as per requirement according to design) of GI China mesh of 1"x1" according to the artistic rockery design. Along with 2" Mortar 1:2:0.5 (Cement, Sand Dust, Sand) china mesh Layers to be added until final form of rockery work is achieved as per the provided design. Surface area to be calculated for billing.	P.Sft	4908.75	400	1,963,500
28	Artistic Paint Work 3 Coat of Two/Three or more shades of paint to achieve the desired natural look. Preferebly Nippon or equivalent. Paint to be done until final look required is not achieved. Surface Area to be calculated for billing.	P.Sft	4908.75	450	2,208,938
29	Extra for Architectural features. (Circumference= 25' Height=50' Area=3927 SFT)	P.Sft	4908.75	250	1,227,188
30	Supply, installation, testing, and commissioning of a centrifugal water pump set with a capacity of 2,500–3,000 L/hr and 50 ft head, complete with motor, valves, piping, starter panel, and accessories. The system will be installed on a concrete base and tested to ensure smooth waterfall operation, with a one-year warranty on equipment and workmanship.	Job	1.00		5,000,000
	Rockerries 2 No.s				
31	Filling, watering and ramming earth under floors:- With new earth excavated from outside	P.Cft	12500.00	18	218,750
32	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture and content in layers, etc. complete: 95% to 100% maximum modified AASHTO dry density.	P.Cft	12500.00	2	22,375
33	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 3: 6 (3" thick)	P.Cft	550.00	410	225,759
34	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a)&(b)above not requiring form work (i.e. horizontal shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4	P.Cft	550.00	613	337,398
35	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (Grade-60)	1 Kg	2150.00	300	644,441

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
36	Solid Artistic Cladding Work using fine china mesh, #3 mild steel and mortar 1:2:0.5 (Cement, Sand Dust, Sand) Khaaka Plaster of 5" to 10" multiple layers as per requirement on site and design. Complete natural look to be achieved by artist. Surface area to be calculated for billing. The Work includes getting rockery shapes using fine china mesh and #3 steel..	P.Sft	2500.00	2,270	5,675,000
37	Provision and Fixing of Single or Multiple Layers (as per requirement according to design) of GI China mesh of 1"x1" according to the artistic rockery design. Along with 2" Mortar 1:2:0.5 (Cement, Sand Dust, Sand) china mesh Layers to be added until final form of rockery work is achieved as per the provided design. Surface area to be calculated for billing.	P.Sft	2500.00	400	1,000,000
38	Artistic Paint Work 3 Coat of Two/Three or more shades of paint to achieve the desired natural look. Preferebly Nippon or equivalent. Paint to be done until final look required is not achieved. Surface Area to be calculated for billing.	P.Sft	2500.00	450	1,125,000
39	Extra for Architectural features. (Circumference= 25' Height=10' Area=1200 SFT)	P.Sft	0.00	250	-
	Sculptures 2 No.s				
40	Supply, delivery, and installation of custom-designed outdoor sculptures made of weather-resistant materials , including base supports, anchoring, finishing, protective coating, and final positioning as per approved design. Complete in all respects with a one-year warranty on structure and finish.	job			
41	Upto 2'-0" Height (other Size in equal proportion)	Each	15	500,000	4,000,000
42	Upto 2'-6" Height (other Size in equal proportion)	Each	7	600,000	4,200,000
43	Upto 3'-0" Height (other Size in equal proportion)	Each	5	800,000	4,000,000
44	Upto 4'-0" Height (other Size in equal proportion)	Each	4	1,000,000	4,000,000
45	Upto 6'-0" Height (other Size in equal proportion)	Each	3	2,600,000	7,800,000
46	Upto 8'-0" Height (other Size in equal proportion)	Each	2	3,000,000	6,000,000
	SIGNAGE WORKS				

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
47	Supply, fabrication, and installation of outdoor and indoor signage for park and zoo facilities in accordance with approved designs and industry standards. Materials to be weather-resistant Sign faces to have clear, legible text and pictograms conforming to universal symbols and local regulations. Fixings to be sturdy and suitable for various substrates including posts, walls, and fences. Installation includes foundations or mounting supports as required.				
48	Upto 2'-0" Height (other Size in equal proportion)	Each	8	200,000	4,000,000
49	Upto 2'-6" Height (other Size in equal proportion)	Each	7	300,000	4,200,000
50	Upto 3'-0" Height (other Size in equal proportion)	Each	5	500,000	4,000,000
51	Upto 4'-0" Height (other Size in equal proportion)	Each	4	800,000	4,000,000
52	Upto 6'-0" Height (other Size in equal proportion)	Each	3	1,200,000	7,800,000
53	Upto 8'-0" Height (other Size in equal proportion)	Each	2	2,000,000	6,000,000
	Pond				
54	Supply, excavation, construction, and finishing of an artificial pond within the aviary area (18,000 sqft, 2 ft depth), including earthwork, compaction, waterproofing liner, stone pitching along side slopes and base, mortar grouting, edge treatment, proper drainage outlet, and final cleaning to deliver a fully functional, durable, and aesthetically finished pond complete in all respects.	P.Sft	18000.00	950	17,100,000
	Cloud Forest				
55	Construction of Cloud Forest Building	P.Sft	550.00	4,924	2,708,200
56	Add strip/isolated column footing	P.Sft	550.00	1,057	581,350
57	Add for Frame Structure for each Floor	P.Sft	550.00	1,305	717,750
58	Indoor waterfall assembly (~30–35 ft drop)—intake screens, vertical weir, sheet-flow spill, splash control baffles, catch basin, stainless anchorage, waterproofing, complete.	P.Sft	550.00	950	522,500
59	Solid Artistic Cladding Work using fine china mesh, #3 mild steel and mortar 1:2:0.5 (Cement, Sand Dust, Sand) Khaaka Plaster of 5" to 10" multiple layers as per requirement on site and design. Complete natural look to be achieved by artist. Surface area to be calculated for billing. The Work includes getting rockery shapes using fine china mesh and #3 steel..	P.Sft	6758.00	2,270	15,340,660
60	Provision and Fixing of Single or Multiple Layers (as per requirement according to design) of GI China mesh of 1"x1" according to the artistic rockery design. Along with 2" Mortar 1:2:0.5	P.Sft	6758.00	400	2,703,200

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
	(Cement, Sand Dust, Sand) china mesh Layers to be added until final form of rockery work is achieved as per the provided design. Surface area to be calculated for billing.				
61	Artistic Paint Work 3 Coat of Two/Three or more shades of paint to achieve the desired natural look. Preferebly Nippon or equivalent. Paint to be done until final look required is not achieved. Surface Area to be calculated for billing.	P.Sft	6758.00	450	3,041,100
62	Extra for Architectural features. (Circumference= 160' Height=35')	P.Sft	0.00	250	-
63	Supply, installation, testing, and commissioning of a centrifugal water pump set with a capacity of 2,500–3,000 L/hr and 50 ft head, complete with motor, valves, piping, starter panel, and accessories. The system will be installed on a concrete base and tested to ensure smooth waterfall operation, with a one-year warranty on equipment and workmanship.	Job	2.00		6,000,000
64	Water treatment & chemical dosing system (pH, ORP), test kits, commissioning, O&M manuals, complete.	Job	1.00		2,257,800
65	Make-up water, circulation, and filtration plant—duty/standby pumps, strainers, sand/cartridge filters, UV (or ozone) sterilizer, flow meters, valves, VFDs, flexible connectors, complete.	Job	1.00		3,050,000
66	High-pressure fog/mist system (≥70–100 bar pump, SS headers, anti-drip nozzles, RO feed) for visual “cloud” and humidity	Job	1.00		1,875,000
67	Specialist show/landscape lighting—IP-rated luminaires for mountain, waterfall backlighting, walkway lights, drivers, DMX (if required), complete.	Job	1.00		9,500,000
68	Cloud Walk / Treetop Walk—elevated catwalk(s) with anti-skid decking, SS balustrades, localized dampers, vibration checks, complete. Aerial walkways are a defining feature.	Job	1.00		15,500,000
69	Horticulture (Cloud-Forest Planting)	Job	1.00		20,000,000
70	Supply, fabrication, and installation of a modular green façade system comprising MS frame with anti-corrosive coating, galvanized mesh or cable net for climbers, locally fabricated FRP/MS planter boxes with drainage, lightweight soil mix, drip irrigation network, and plantation of suitable creepers, complete in all respects with testing, commissioning, and 3-month establishment maintenance	Job	1.00		10,000,000
	Horticulture				
71	Epiphyte planting to mountain faces (orchids, ferns, bromeliads, mosses, pitcher plants) on geotextile/mesh panels with irrigation drippers and feed lines, complete.	Job	1.00		4,850,000
72	Shrub and understory palette (cloud-forest species appropriate to local microclimate), soil mix, planters, tree anchors, complete.	Job	1.00		3,857,560
73	Automated irrigation & fertigation (drip + fog integration), moisture/EC sensors, zonal valves, controller, complete.	Job	1.00		4,350,000

Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
74	Plant establishment & maintenance period (e.g., 6–12 months: watering, pruning, replacements, IPM), complete.	Job	1.00		4,500,000
	Tree House				
75	Construction of a reinforced concrete (RCC) tree house with connecting bridges, including RCC columns, beams, and slab platforms with treated wooden decking, cladding, and railing finishes, lightweight roof structure, RCC/MS staircases, and bridges with wooden planks and safety railings, complete in all respects with waterproofing, finishing, and installation.	Job	2.00	6,358,000	12,716,000
	Under Ground Electrification				
76	Under Ground Electrification of exisiting facilities	Job	1.00		5,200,000
77	IT Infra = Fiber Optic, control room, network devices, switches, firewalls, CCTV, acustic sensors, video wall etc				50,000,000
Total					774,545,866
Add 5% PRA Charges					38,727,293
Grand Total					813,273,159
Cost in Million					813.27

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF HIPPO HOUSING AT SAFARI ZO LAHORE HOUSING (5000 SFT) MOAT AREA (51000 SFT)

#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount
				B.P	E.I	P.H	S.G		
1	2	3	4	5	6	7	8	9	10
1	Construction of Hippo Housing								
	Ground Floor	5000	P.Sft	4924	377	198		5499	27,495,000
	Add strip/isolated column footing	5000	P.Sft	1057				1057	5,285,000
2	Solid artistic cladding work using fine china mesh #3 mild steel and mortar 1:2 khaaka plaster multiple layers as per requirement on site and design. Complete natural look to be achieved by artist surface area to be calculated for building. The work includes getting rockery shapes using fine china mesh and #3 steel.								
	Ground Floor	3600	P.Sft					1320	4,752,000
3	Artistic paint work seven to eight coat of 2/3 more shades of paint to achieve the desired natural look. Preferably Jotun/Nippon or equivalent. Paint to be done until final look required is not achieved surface area to be calculated for building.								
	Ground Floor	3600	P.Sft					235	846,000
4	Extra for Architectural features. (5000 SFT)	5000	P.Sft					250	1,250,000
5	Providing and fixing 2'-9" high Concrete made natural wood grains by artwork ornamental design with imported water proof colour complete in all respect to finish the joints as approved and directed by the Engineer Incharge. (Outer,374 + Inner,329 Total = 703 RFT)	900	R.Ft					4152	3,736,800
6	Construction of water pond (Size= 30'x16'x5')	480	P.Sft					10800	5,184,000
7	Providing and fixing Squeeze cage M.S angle iron 3"x3"x1/4" frame welded with MS Square bar 1"x1" i/c wood 5'x6' sheet i/c painting complete as approved by engineer incharge.	1	Each					1300000	1,300,000
8	Providing and fixing MS Doors including grill and pully system complete in all respect.	4	Each					250000	1,000,000
9	Wooden Canopy on Water Pond	2	Each					142500	285,000
10	Turfing slopes of banks or lawns with Daka grass carpet including ploughing, laying, setting and watering.	42000	P.Sft					90	3,780,000
11	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines/electric cables upto 5 ft. (1.5 m) depth from ground level, including backfilling, trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects (10611x6= 63666 Cft)	126000	Cft					17.08	2,152,080
12	Construction of Brick retaining wall inside Moat. 900 RFT	900	R.Ft					10450	9,405,000
13	Construction of Water Pond inside the Housing (Size= 30'x16'x5')	480	P.Sft					10800	5,184,000
14	Providing and Fixing split DC Inverter AC 2 Tons.	2	Each					405000	810,000
15	Providing and fixing swings, tires, Wooden Logs , Rocks and gadgets etc	1	Job					100000	100,000
Total									72,564,880
Add 10% External Development of item No.1									2,749,500
Total									75,314,380
Add 5% PRA Charges									3,765,719
Grand Total									79,080,099
Cost in Million									79.080

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF CROCODILE ENCLOSURE AT SAFARI ZOO LAHORE (ENCLOSURE AREA (29000 SFT)

#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount	Remarks
				B.P	E.I	P.H	S.G			
1	2	3	4	5	6	7	8	9	10	11
2	Solid artistic cladding work using fine china mesh #3 mild steel and mortar 1:2 khaaka plaster multiple layers as per requirement on site and design. Complete natural look to be achieved by artist surface area to be calculated for building. The work includes getting rockery shapes using fine china mesh and #3 steel.									
	Bridge	1400	P.Sft					1320	1,848,000	
3	Artistic paint work seven to eight coat of 2/3 more shades of paint to achieve the desired natural look. Preferably Jotun/Nippon or equivalent. Paint to be done until final look required is not achieved surface area to be calculated for building.									
	Bridge	1400	P.Sft					235	329,000	
4	Providing and fixing 2'-9" height Concrete made natural wood grains by artwork ornamental design with imported water proof colour complete in all respect to finish the joints as approved and directed by the Engineer Incharge. (Outer,374 + Inner,329 Total = 703 RFT)	900	R.Ft					4152	3,736,800	
5	Construction of R.C.C Bridge (L=350' W=15')	5250	P.Sft					8640	45,360,000	
6	Construction of water pond (Size= 50'x16'x3') 2No.s	1600	P.Sft					6700	10,720,000	
7	Wooden Canopy on Water Pond	2	Each					142500	285,000	
8	Turfing slopes of banks or lawns with Daka grass carpet including ploughing, laying, setting and watering.	21000	P.Sft					90	1,890,000	
9	Construction of Retaining wall inside Moat. 900 RFT	900	R.Ft					9850	8,865,000	
10	Providing and fixing Sand Bench etc	1	Job					100000	100,000	
Total									73,133,800	
Add 5% PRA Charges									3,656,690	
Grand Total									76,790,490	
Cost in Million									76.790	

ROUGH COST ESTIMATE FOR REHABILITATION OF PAKISTANI UNGULATE ENCLOSURES 2460 RFT (ECLOSURE 234000 SFT) INCLUDING 5 NO. HOUSINGS (368 SFT EACH) AT SAFARI ZOO LAHORE										
#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount	Remarks
				B.P	E.I	P.H	S.G			
1	2	3	4	5	6	7	8	9	10	11
1	Construction of Pakistani Ungulate Housings (368X5=1840 SFT)	1840	P.Sft	4924	377	198		5499	10,118,160	
2	Solid artistic cladding work using fine china mesh #3 mild steel and mortar 1:2 khaaka plaster multiple layers as per requirement on site and design. Complete natural look to be achieved by artist surface area to be calculated for building. The work includes getting rockery shapes using fine china mesh and #3 steel. (600X5=3000 SFT)	3000	P.Sft					1320	3,960,000	
3	Artistic paint work seven to eight coat of 2/3 more shades of paint to achieve the desired natural look. Preferably Jotun/Nippon or equivalent. Paint to be done until final look required is not achieved surface area to be calculated for building.	3000	P.Sft					235	705,000	
4	Extra for Architectural features.	1840	P.Sft					250	460,000	
5	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines/electric cables upto 5 ft. (1.5 m) depth from ground level, including backfilling, trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects (L=2460', W=3', D=3' = 22140 Cft)	22140	CFt					17.08	378,151	
6	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	1845	CFt					126.24	232,913	
7	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 3: 6 (3" thick)	1845	CFt					410.47	757,317	
8	Pacca brick work in foundation and plinth in:- Ratio 1:6	22140	CFt					342.44	7,581,622	
9	Providing and laying machine sprayed plaster ½" (13 mm) thick, using cement and chips zero gauge, over the existing plastered and roughened surface, upto 20' (6.00 m) height: ratio 1:1 Avg 4 feet . (2460x2x2.5= 12300 SFT)	12300	P.Sft					109.19	1,343,037	
10	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a)&(b)above not requiring form work (i.e. horizontal shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4	878.06	CFt					613.45	538,647	
11	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (Grade-60)	2687.9	Kg					299.74	805,685	
12	Providing and fixing hot dipped Galvanized Iron chain link mesh/ fence of 2"x2" mesh made of wire of specified gauge, with the help of 1"x1/8" GI patti, GI. clamps and screws, i/c the cost of 3nos 8SWG GI tie wires penetrated through mesh at top, middle and bottom, fixed on vertical posts of 2" diameter GI pipes (medium quality) erected @8ft C/C duly embedded in PCC (1:2:4)etc. complete in all respect as approved and directed by the Engineer Incharge. (i) 8 SWG	19680	P.Sft					505.65	9,951,192	
13	Construction of Kacha Track (Length=700' Width=15' Area=10500)	10500	P.Sft					350	3,675,000	
14	Water Pond, Feeding Points with shelters (5x1=5 No.s)	5	Each					402500	2,012,500	
Total									42,519,224	
Add 10% External Development of item No.1									1,011,816	
Total									43,531,040	
Add 5% PRA Charges									2,176,552	
Total									45,707,592	
Cost in Million									45.708	

ROUGH COST ESTIMATE FOR REHABILITATION OF AFRICAN UNGULATE ENCLOSURES 4550 RFT (ENCLOSURE 360000 SFT) INCLUDING HOUSING 8 NO. (368 SFT EACH) AT SAFARI ZOO LAHORE

#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount
				B.P	E.I	P.H	S.G		
1	2	3	4	5	6	7	8	9	10
1	Construction of African Ungulate Housings (368X8=2944 SFT)	2944	P.Sft	4924	377	198		5499	16,189,056
	Add strip/isolated column footing	2944	P.Sft	1057				1057	3,111,808
2	Solid artistic cladding work using fine china mesh #3 mild steel and mortar 1:2 khaaka plaster multiple layers as per requirement on site and design. Complete natural look to be achieved by artist surface area to be calculated for building. The work includes getting rockery shapes using fine china mesh and #3 steel. (600X8=4800 SFT)	4800	P.Sft					1320	6,336,000
3	Artistic paint work seven to eight coat of 2/3 more shades of paint to achieve the desired natural look. Preferably Jotun/Nippon or equivalent. Paint to be done until final look required is not achieved surface area to be calculated for building.	4800	P.Sft					235	1,128,000
4	Extra for Architectural features.	2944	P.Sft					250	736,000
5	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'upto one chain (30 m) and lift upto 5 ft. (1.5 m). By Manual (L=4550', W=3', D=3' = 40950 Cft)	40950	CFt					17.08	699,426
6	Construction of Toba (150x200x1.5= 45000 Cft)	45000	CFt					17.08	768,600
7	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	3412.5	CFt					126.24	430,794
8	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 3: 6 (3" thick)	3412.5	CFt					410.47	1,400,729
9	Pacca brick work in foundation and plinth in:- Ratio 1:6	40950	CFt					342.44	14,022,918
10	Providing and laying machine sprayed plaster ½" (13 mm) thick, using cement and chips zero gauge, over the existing plastered and roughened surface, upto 20' (6.00 m) height: ratio 1:1 Avg 4 feet. (4550x2X2.5= 22750 SFT)	22750	P.Sft					109.19	2,484,073

Annexure22 - Rough Cost Estimates

11	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a)&(b) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- Type C (nominal mix 1: 2: 4)	1620.9	Cft					613.45	994,364
12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (Grade-60)	4962.1	Kg					299.74	1,487,326
13	Providing and fixing hot dipped Galvanized Iron chain link mesh/ fence of 2"x2" mesh made of wire of specified guage, with the help of 1"x1/8" GI patti, GI. clamps and screws, i/c the cost of 3nos 8SWG GI tie wires penetrated through mesh at top, middle and bottom, fixed on vertical posts of 2" diameter GI pipes (mediumquality) erected @8ft C/C duly embeded in PCC (1:2:4)etc. complete in all respect as approved and directed by the Engineer Incharge. (i) 8 SWG	36400	P.Sft					505.65	18,405,660
14	Construction of Kacha Track (Length=1200' Width=15' Area=18000)	18000	P.Sft					350	6,300,000
15	Water Pond, Feeding Points with shelters (8x1=8 No.s)	8	Each					402500	3,220,000
Total									77,714,753
Add 10% External Development of item No.1									1,618,905.60
Total									79,333,659
Add 5% PRA Charges									3,966,682.95
Total									83,300,342
Cost in Million									83.300

ROUGH COST ESTIMATE FOR THE REHABILITATION OF EXISTING LAKE AT SAFARI ZOO LAHORE (AREA 150000 SFT)					
Item No.	Bill No.1.1 (Civil Works)	Unit	PC-I Cost		
	Description		Quantity	Rate	Amount
				(Pak Rs)	(Pak Rs)
1	Rehabilitation of existing lake				
	Site cleaning, dewatering, and preparation of existing lake area (150,000 sqft), removal of silt and debris, leveling and grading for rehabilitation works, complete in all respects.	Job	1		9,500,000
	Excavation and trimming of side slopes and bed for proper gradient, including disposal of unsuitable material and compaction of subgrade, complete as directed.	Job	1		3,540,000
2	Supply and installation of HDPE geomembrane liner (minimum 1.5mm thick) over prepared subgrade, with proper welding of seams, anchoring in trenches along perimeter, and quality testing to ensure watertight sealing, complete in all respects.	Job	1		14,805,000
	Providing and laying of geotextile protection layer (non-woven, 200 gsm) below HDPE liner to protect against puncture from subgrade, complete in all respects.	Job	1		2,500,000
	Stone pitching on side slopes and edges of lake (average thickness 9-12 inches), including supply of boulders, laying over prepared bed, mortar filling in joints, and compaction for stability, complete with edge finishing.	Job	1		22,500,000
	Construction and installation of surface drainage system around lake perimeter (drain channels, RCC pipes, catch basins, inlet grates), connected to outlet to prevent overflow and erosion, complete in all respects.	Job	1		3,500,000
3	Supply, installation, and commissioning of water circulation turbine / aeration turbine of suitable capacity for a 150,000 sqft lake, including base foundation, anchoring, electrical connections, control panel, and testing for continuous operation.	Job	1		8,000,000
7	Final cleaning, filling of lake with water, leak test, landscaping of embankments, and demobilization of equipment, complete for handover.	Job	1		2,500,000
1					66,845,000
Add 5% PRA Charges					3,342,250
Grand Total					70,187,250
Cost in Million					70.187

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF WOODLAND LODGES 10 NO.S (700 SFT EACH) AT SAFARI ZOO LAHORE									
#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount
				B.P	E.I	P.H	S.G		
1	2	3	4	5	6	7	8	9	10
1	Construction of Woodland Lodges 10 No.s	7000	P.Sft	4924	377	198		5499	38,493,000
2	Add strip/isolated column footing	7000	P.Sft	1057				1057	7,399,000
3	Add for Architectural Features	7000	P.Sft	250				250	1,750,000
	Provision of Air Conditioner 1.5 ton	10	No.					250,000	2,500,000
	Total								50,142,000
	Add 5% PRA Charges								2,507,100
Grand Total									52,649,100
Cost in Million									52.649

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF APPROACH TRACK OF WOODLAND LODGES AT SAFARI ZOO LAHORE

#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount
				B.P	E.I	P.H	S.G		
1	2	3	4	5	6	7	8	9	10
	Construction of Approach Track of Woodland Lodges								
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) depth upto 5 ft (1.5m). Ordinary Soil (L=580', W=10')	4640	Cft					17.08	79,251
2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	1740	Cft					126.24	219,658
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 3: 6 (3" thick)	1740	Cft					410.47	714,218
4	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/8" (10 mm) thick	1160	P.Sft					46.44	53,870
5	Providing and laying Tuff Pavers, having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured) 60-mm thick	5800	P.Sft					205.25	1,190,450
6	B.B.Q Area	5	No.s					100000	500,000
7	Outdoor Sitting Gazebo Area	5	No.s					500000	2,500,000
Total									5,257,447
Add 5% PRA Charges									262,872
Grand Total									5,520,319
Cost in Million									5.520

ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF ROCK CLIMBING & ZIP LINE TOWER AT SAFARI ZOO LAHORE (W= 15m H=15m)										
#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount	Remarks
				B.P	E.I	P.H	S.G			
1	2	3	4	5	6	7	8	9	10	11
1	Construction of Rock Climbing Tower (Ground floor)	298	P.Sft	4924	377			5301	1,579,698	
2	Construction of Rock Climbing Tower (1st floor)	298	P.Sft	4408	377			4785	1,425,930	
3	Construction of Rock Climbing Tower (2nd floor)	298	P.Sft	4620	377			4997	1,489,106	
4	Construction of Rock Climbing Tower (3rd floor)	298	P.Sft	4832	377			5209	1,552,282	
5	Construction of Rock Climbing Tower (4th floor)	298	P.Sft	5044	377			5421	1,615,458	
6	Construction of Rock Climbing Tower (5th floor)	400	P.Sft	5256	377			5633	2,253,200	
7	Construction of Rock Climbing Wall of RCC 2x17.25x0.50x50=862.50 Cft	862.50	P.Cft	865.7				865.65	746,623	
8	Fabrication of mild Steel 862.50x6.75/2.205=2640kg	2640	P.Kg	299.3				299.26	790,046	
9	Add for Frame Structure	1490	P.Sft	1305				1305	1,944,450	
10	Add strip/isolated column footing	1490	P.Sft	1057				1057	1,574,930	
11	Add for 1' additional Height above 12'.	1490	P.Sft	3811				3811	5,678,390	
12	Add for Architectural Features	1490	P.Sft	250				250	372,500	
13	Hand and Foot Holds		1 Job					850000	850,000	
14	Ropes and Belaying System		1 Job					500000	500,000	
15	Boldering		1 Job					1500000	1,500,000	
16	Safety Harnesses		1 Job					1000000	1,000,000	
17	Construction of Zip line cable		1 Job					7500000	7,500,000	
18	Construction of Zip line Platforms		1 Job					7000000	7,000,000	
19	Providing and fixing zip line trolley		1 Job					2000000	2,000,000	
20	providing and fixing zip line brake		1 Job					1980000	1,980,000	
21	Emergency backup breaking system		1 Job					2000000	2,000,000	
	Total								45,352,614	
	Add 5% PRA Charges								2,267,631	
	Grand Total								47,620,245	
	Cost in Million								47.620	

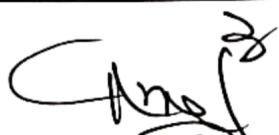
ROUGH COST ESTIMATE FOR THE CONSTRUCTION OF SEWERAGE SYSTEM AT SAFARI ZOO		
SR No.	DESCRIPTION	AMOUNT (Rs.)
1	Provision of Sewerage System	78,296,250
2	Provision of Contingency charges (2%)	1,565,925.01
3	Provision of Road Cut Restoration	131,641,500
Total:		211,503,675
1	Provision of Departmental Charges (12.5%)	26,437,959
Grand Total:		237,941,635

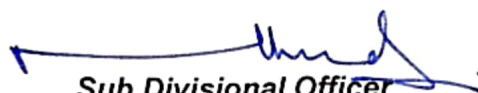
**ROUGH COST ESTIMATE
FOR**

**LAYING OF SEWERAGE SYSTEM AT SAFARI ZOO PARK RAIWIND ROAD
IN LDA AVENUE-I SUB DIVISION, WASA, LAHORE**

GENERAL ABSTRACT OF COST

<i>SR No.</i>	<i>DESCRIPTION</i>	<i>AMOUNT (Rs.)</i>
1	Provision of Sewerage System	78,296,250
2	Provision of Contingency charges (2%)	1,565,925.01
3	Provision of Road Cut Restoration	131,641,500
Total:		211,503,675
1	Provision of Departmental Charges (12.5%)	26,437,959
Grand Total:		237,941,635


Sub Engineer
WASA, Lahore.


Sub Divisional Officer
WASA, Lahore


XEN(O&M-II) JT
WASA, Lahore

ROUGH COST ESTIMATE FOR LAYING OF SEWERAGE SYSTEM AT SAFARI ZOO PARK RAIWIND ROAD IN LDA AVENUE-I SUB DIVISION, WASA, LAHORE

Sr No	Description	No.	L	B	H		Qty	Unit	Rate	Amount
	MRS 2nd Bi Annual 2025									
1	Dismantling removing road metaling									
	For 18" Dia	1	2000	3.25	1	-	6500.00			
	For 18" Dia M/H	40	0.785	85.6	1		2686.58			
	For 12" Dia	1	13000	2.67	1	-	34710.00			
	For 12" Dia M/H	260	0.785	56.3	1		11480.63			
							46190.63	%Cft	17865.40	8,252,139.92
2	Earthwork excavation in open cutting for sewer and manholes, as shown in drawing including shuttering and timbering dressing to correct section and dimensions according to templates and removing surface water in all types of soil except shingle, gravel and rock - (Ch. 3 Page 31 item 42)									
	i) 0' to 7" depth (WOS)									
	For 18" Dia	1	2000	3.25	6	-	39000.00			
	For 18" Dia M/H	40	0.785	85.6	6		16119.50			
	For 12" Dia	1	13000	2.67	6	-	208260.00			
	For 12" Dia M/H	260	0.785	56.3	6		68883.75			
							277143.75	%oCft	12792.15	3,545,264.42
	ii) 7 ft. to 15 ft depth (WOS)									
	For 18" Dia	1	2000	3.25	5	-	32500.00			
	For 18" Dia M/H	40	0.785	85.6	6.75		18134.44			
	For 12" Dia	1	13000	2.67	1	-	34710.00			
	For 12" Dia M/H	260	0.785	56.3	2.75		31571.72			
							31571.72	%oCft	20011.70	631,803.76
3	Dry rammed brick ballast 1.5" to 2" gauge .									
	(Ch 6 Page 41 Item-2)									
	For 18" dia	1	2000	2.5			5000.00			
	For 18" Dia M/H	40	0.785	85.6	1		2686.58			
	For 12" dia	1	13000	1.98			25740.00			
	For 12" Dia M/H	260	0.785	56.3	1		11480.63			
							37220.63	%Cft	13086.50	4,870,877.09
4	Cement concrete brick or stone ballast 1.5" to 2" guage in foundation and pilnth (1:6:12) Ch: 6 Page									
	For 18" Dia M/H	40	0.785	68.1	0.75	-	1602.81			
	For 12" Dia M/H	260	0.785	42.3	0.75	-	6467.42			
							6467.42	%Cft	30955.20	2,002,002.41
5	Providing and laying RCC pipe sewers moulded with cement concrete 1:1 1/2:3 conforming to ASTM Specification C-76-79 Class III, Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade jointing with rubber ring cutting pipes where necessary testing etc. complete i) 310 mm									
	For 18" Dia M/H	1	2000				2000.00	P/Rft	1781.65	3,563,300.00
	For 12" Dia M/H	1	13000				13000.00	P/Rft	1005.50	13,071,500.00
6	Pacca brick work other than building upto 10 height + Extra for pacca brick work in steining of wells any other circular masonry Ch 7 Page 52 item 7 & 10									
	0Ft To 10Ft Hight									
		40	3.14	5.75	1.13	2	1624.95			
	For 18"O M/H	40	3.14	5.75	0.75	4.67	2529.51			
	Dome	40	3.14	4.16	0.75	3.33	1304.93			
	For 12"O M/H	260	3.14	4.75	0.75	4.5	13087.91			
	Dome	260	3.14	3.66	0.75	2.83	6342.08			
							19429.99			
	D'd for pipe	260	2	0.785	1.77	0.75	541.89			
		40	2	0.785	2.25	1.13	158.96			
							18888.11	%Cft	52557.85	9,927,183.44
	10 Feet and Above	40	3.14	5.75	1.13	1.33	1080.59	%Cft	54218.85	585,884.42
7	Cement plaster 1 3 upto 20 hight Ch: 11 Page 73, 1-									
		40	3.14	7.25		3.33	3032.30			
	For 18"O M/H	40	3.14	5.75		4.67	3372.67			

Annexure 22 - Rough Cost Estimates

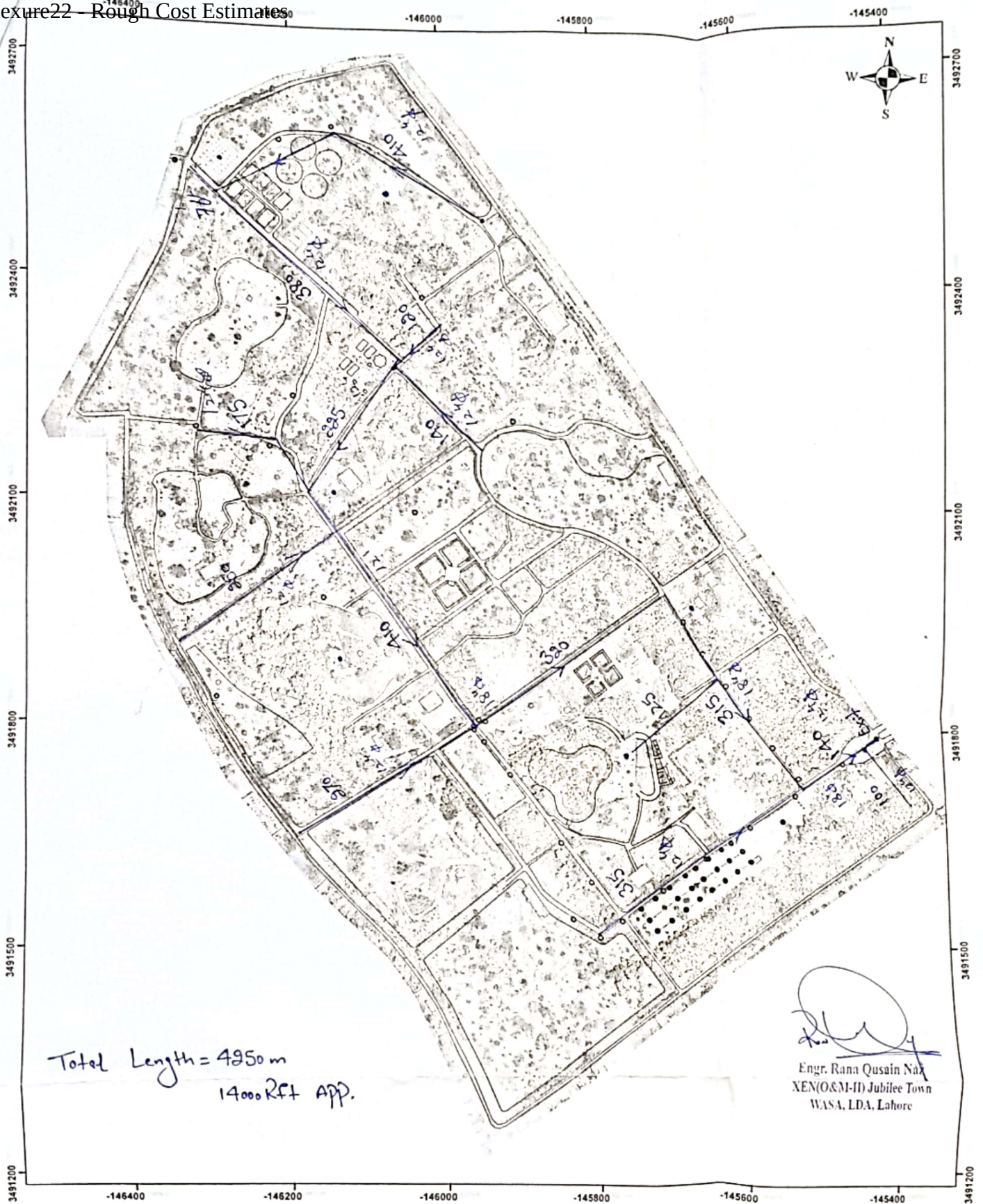
		40	3.14	4.16		3.33	1739.91			
For 12" O M/H		260	3.14	4.75		4.5	17450.55			
Dome		260	3.14	3.66		2.83	8456.11			
							25906.66			
D/d for pipe		260	2	0.785	1.77		722.51			
		40	2	0.785	2.25		141.30			
							25042.84	%Sft	5,208.75	1,304,419.13
8	Cement pointing flush upto 20 high in (1-2) Ch 11 Page 73 1-16 (a)									
		40	3.14	5.00		3.33	2091.24			
	For 18" O M/H	40	3.14	5.00		4.67	2932.76			
	Dome	40	3.14	3.42		3.33	1430.41			
	For 12" O M/H	260	3.14	4		4.5	14695.20			
	Dome	260	3.14	2.91		2.83	6723.30			
							21418.50			
	D/d for pipe	260	2	0.785	1.77		722.51			
		40	2	0.785	2.25		141.30			
							20554.68	%Sft	4,872.75	1,001,578.41
9	Cement concrete plan including placing compacting finishing and curing complete (including screening and washing of stone aggregate). Ratio 1:2:4 Ch: 6 Page 41, 1-5 (f)									
	For Benching 18"O	40	0.785	25	1.5		1177.50			
	For C I Ring	40	3.14	2.58	0.75	0.67	162.83			
	For Benching 12"O	260	0.785	16	1		3265.60			
	For C I Ring	260	3.14	2.58	0.75	0.67	1058.42			
							5664.36	%Cft	51408.70	2,911,971.73
10	Rehandling of earthwork (a) Lead upto single throw of Kassi, Phorah, Shovel, (a) Mixing moistening earth to optimum moisture content in layers for compaction etc, compete Ramming earthwork (all types of soil). Ch: 3 Page 129 Item 16)	308715.47				0.7	216100.83	%oCft	8421.10	1,819,806.68
11	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. Upto 5 mile	308715.47				0.3	92614.64	%oCft	14605.00	1,352,636.83
12	Providing and laying R. C. C. pipe, molded with cement concrete 1:1.5:3, with spigot socket or collar joint, etc, including cost of reinforcement , confirming to B. S. 5911: part 1 : 1981, class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing , cutting pipe where necessary, finishing and testing etc complete - Ch: 21 Page 1	1	100				100.00	P/Rft	606.75	60,675.00
13	Constructing gully grating chamber, 12"x12", (300x300mm) complete in all respects: a) with C.I. gully trap, weighing 81 lbs. (36.75 Kg.) frame hinged safety type.	20					20.00	Each	17375.75	347,515.00
14	Bailing out Water by pump	1000000					1000000.00	%oCft	918.18	918,180.00
15	Suplying filling sand underfloor or plugging in wells	1	2000	3.25	5	-	32500.00			
		1	13000	2.67	5	-	173550.00			
							206050.00	%Cft	5427.00	1,118,233.35
							Total of MRS Items Rs.			57,284,971.60
	NON MRS ITEMS									
1	Road Diversion G.I Corrugated Sheets (8x4)	5000					5000.00	P/Rft	600.00	3,000,000.00
2	Protection of Electric Pole (single)	5					5.00	Each	482260.00	2,411,300.00
3	P/F M.I Steps.	300	8.00				2400.00	Each	450.00	1,080,000.00
4	Making connection with existing main sewer 18"O	1					1.00	Each	5453.00	5,453.00
5	Shifting of sewer Connections	25					25.00	Each	6399.00	159,975.00

6	Cost of boring by manual boring method (under road / railway canal) including manufacturing of pipe, cutting, rolling, testing and welding in two layers, all carriage from market to site, cost of labour, hire charges of chain pulley block, laying, jointing RCC pipe in MS casing i/d as per drawing and specification with equal space all around using suitable channels, hire charges of horizontal jacks, Generator, wooden studs, injecting cement sand slurry with injector pump. Labour charges for excavation of earth from MS casing pipe to ground level and maintain level to according to profile complete in all respects to satisfaction of engineer in-charge. 18" i/d	200					200.00	P/Rft	43586.29	8,717,258.00
7	Left over shuttering and timbering which include kikar wood, sawing, bolts, nuts and nails complete in all respects in sewer trench (where required) after approval from the competent Authority. (Provisional quantity to be executed after approval of the Engineer)	500					500.00	P/Rft	3817.80	1,908,900.00
Total of Non MRS Items Rs.										17,282,886.00
Total of MRS Items Rs.										57,284,971.60
Total Rs.										74,567,857.60
Add 5% PRA										3,728,392.88
G-Total										78,296,250.48

3
SUB ENGINEER
WASA, LAHORE

SUB DIVISIONAL OFFICER
WASA, LAHORE

EXECUTIVE ENGINEER (O&M-II)
JUBILEE TOWN
WASA, LAHORE



Total Length = 4950 m
14000 Rft App.

Engr. Rana Qusain Nax
XEN(O&M-II) Jubilee Town
WASA, LDA, Lahore

TOPOGRAPHIC DRONE SURVEY OF SAFARI ZOO LAHORE

150 75 0 150 Meters

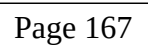
1 centimeter = 46 meters

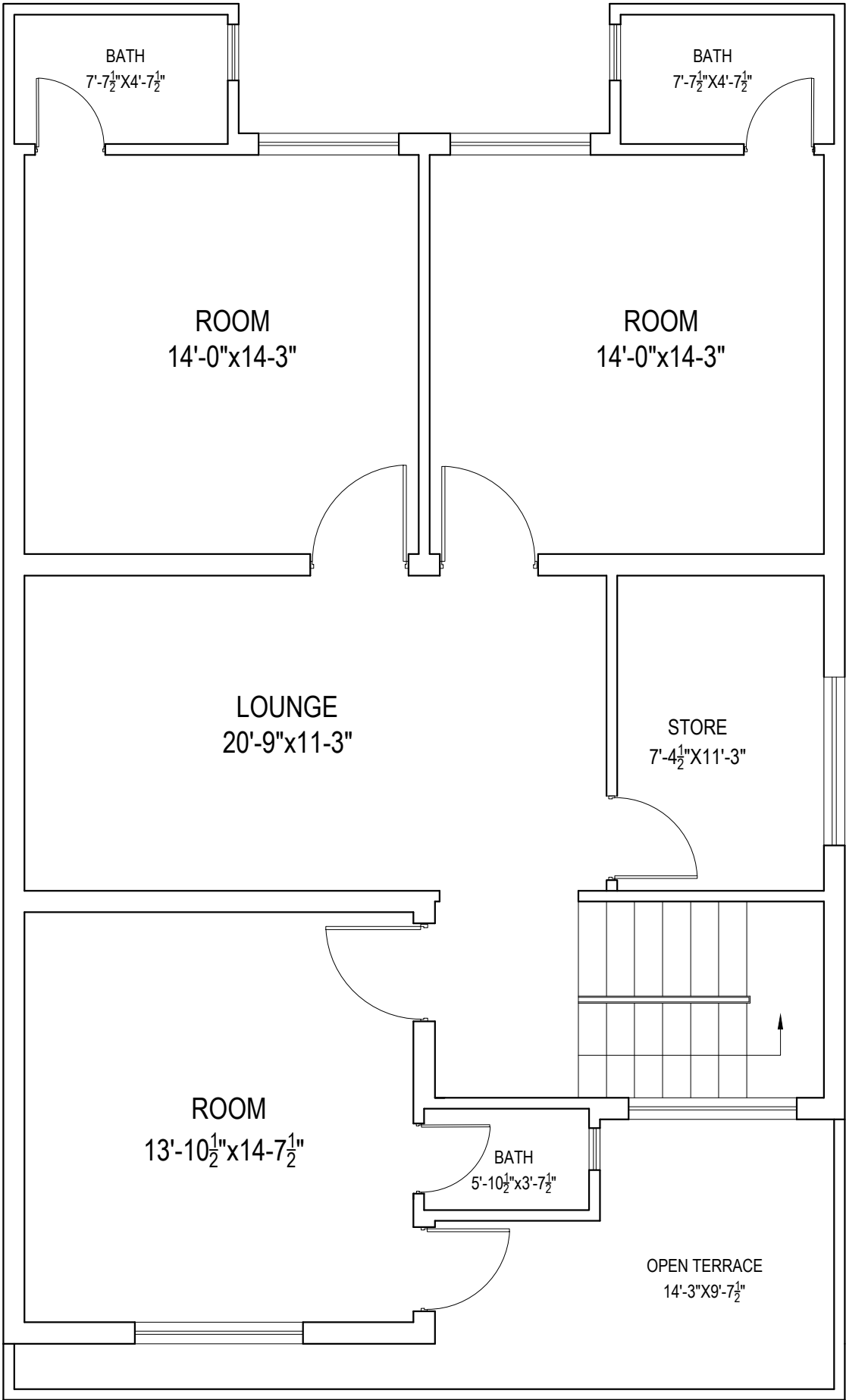


PUNJAB WILDLIFE & PARKS
DEPARTMENT

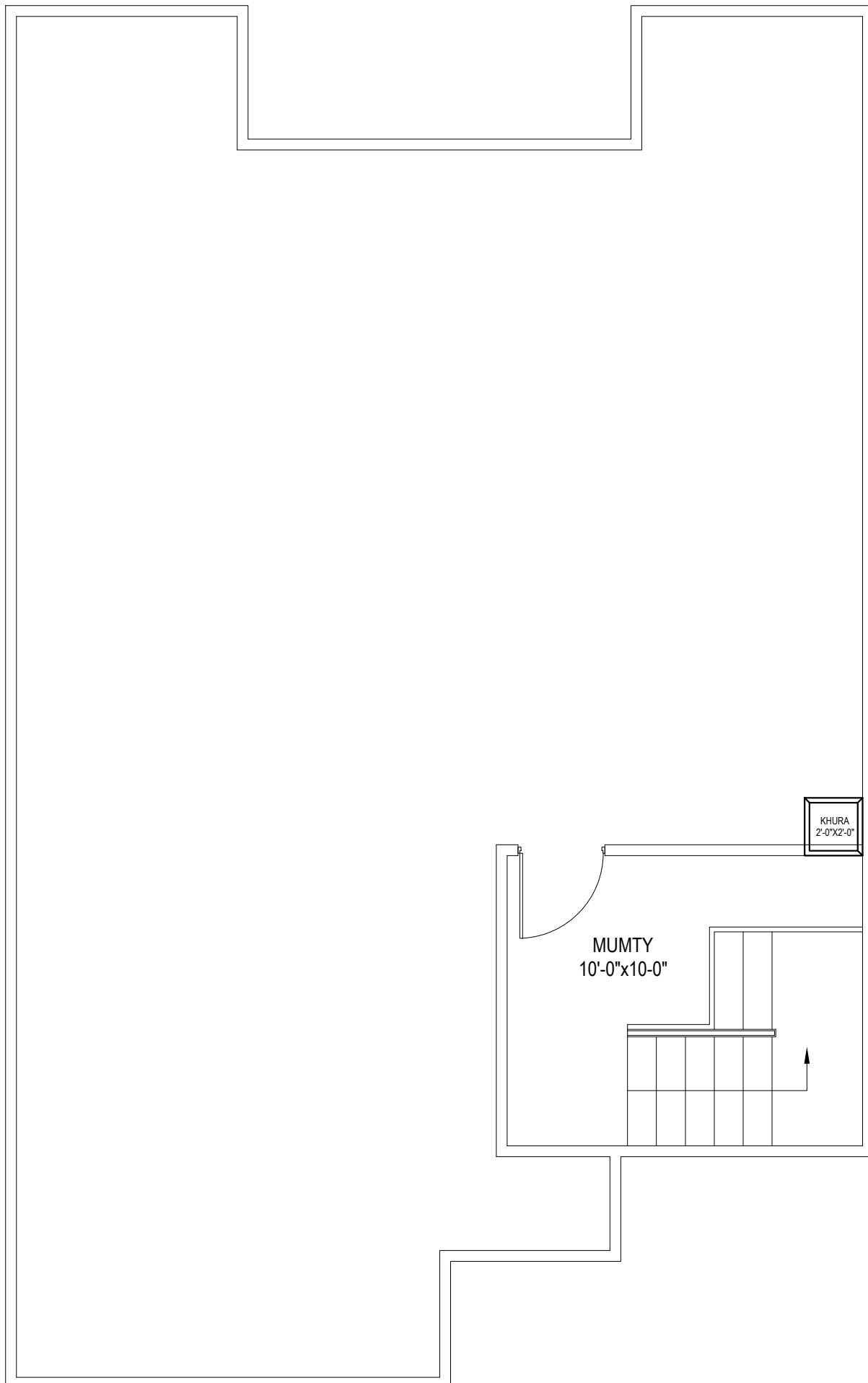
ROUGH COST ESTIMATE FOR THE ROAD CARPETING AT SAFARI ZOO LAHORE										
#	Description	Plinth Area	Unit	2nd Bi-Annual system 2025 (1st Jul 2025 to 31 Dec 2025)				Total	Amount	Remarks
				B.P	E.I	P.H	S.G			
1	2	3	4	5	6	7	8	9	10	11
1	Providing and laying bituminous priming coat, using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	49200	P.Sft					22.19	1,091,748	
2	Providing and laying bituminous tack coat, using 10lbs. of bitumen per 100 Sft (0.49 Kg of bitumen per sq.m.)	49200	P.Sft					12.17	598,764	
3	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. 5% Bitumen (2" thick) 1.25km Length 12 feet wide	49200	P.Sft					165.034	8,119,673	
Total									9,810,185	
Add 5% PRA Charges									490,509.24	
Grand Total									10,300,694	
Cost in Million									10.301	

PROPOSED BUILDING FOR
STAFF RESIDENCE (DD OFFICER)
WORKING DRAWINGS JULY, 2025

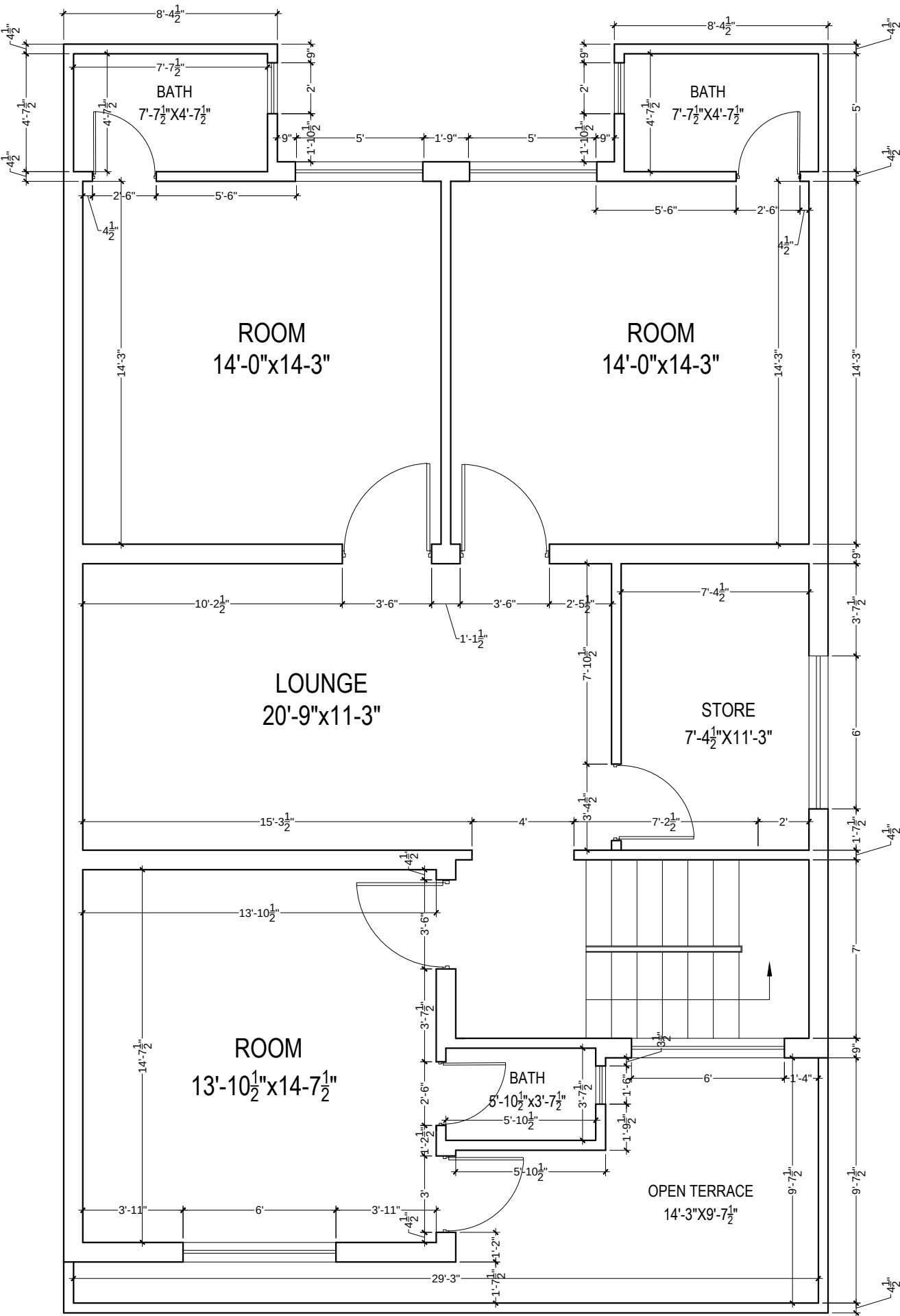




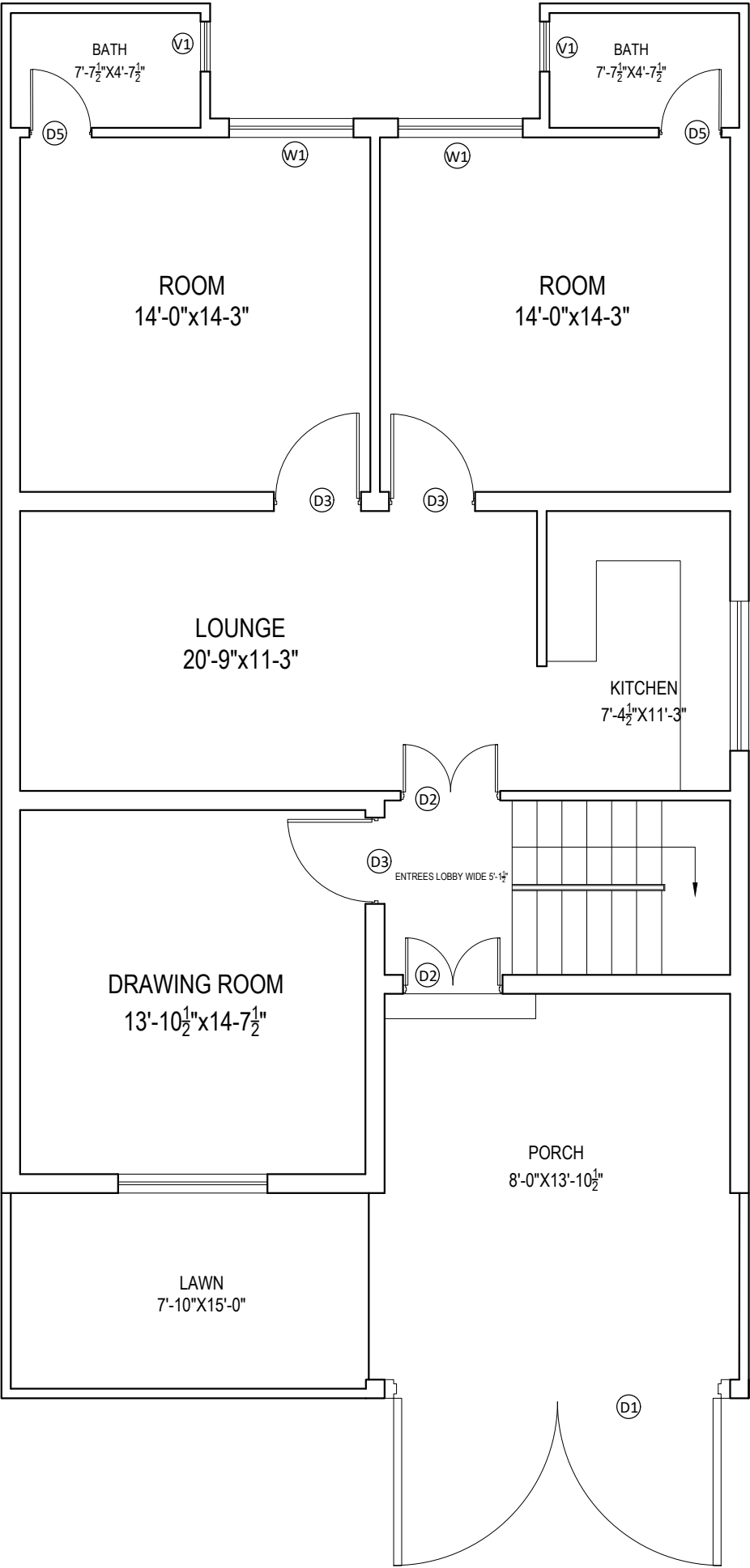
CONSULTANT CIVITECH ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/1007 & 42/10700-10701, LAHORE Ph: 011-77889220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE 3D VIEW	ORIENTATION 	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY: 409 SFT
			VIEW 1		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
			CHECKED BY:				DATE 09 JULY 2025



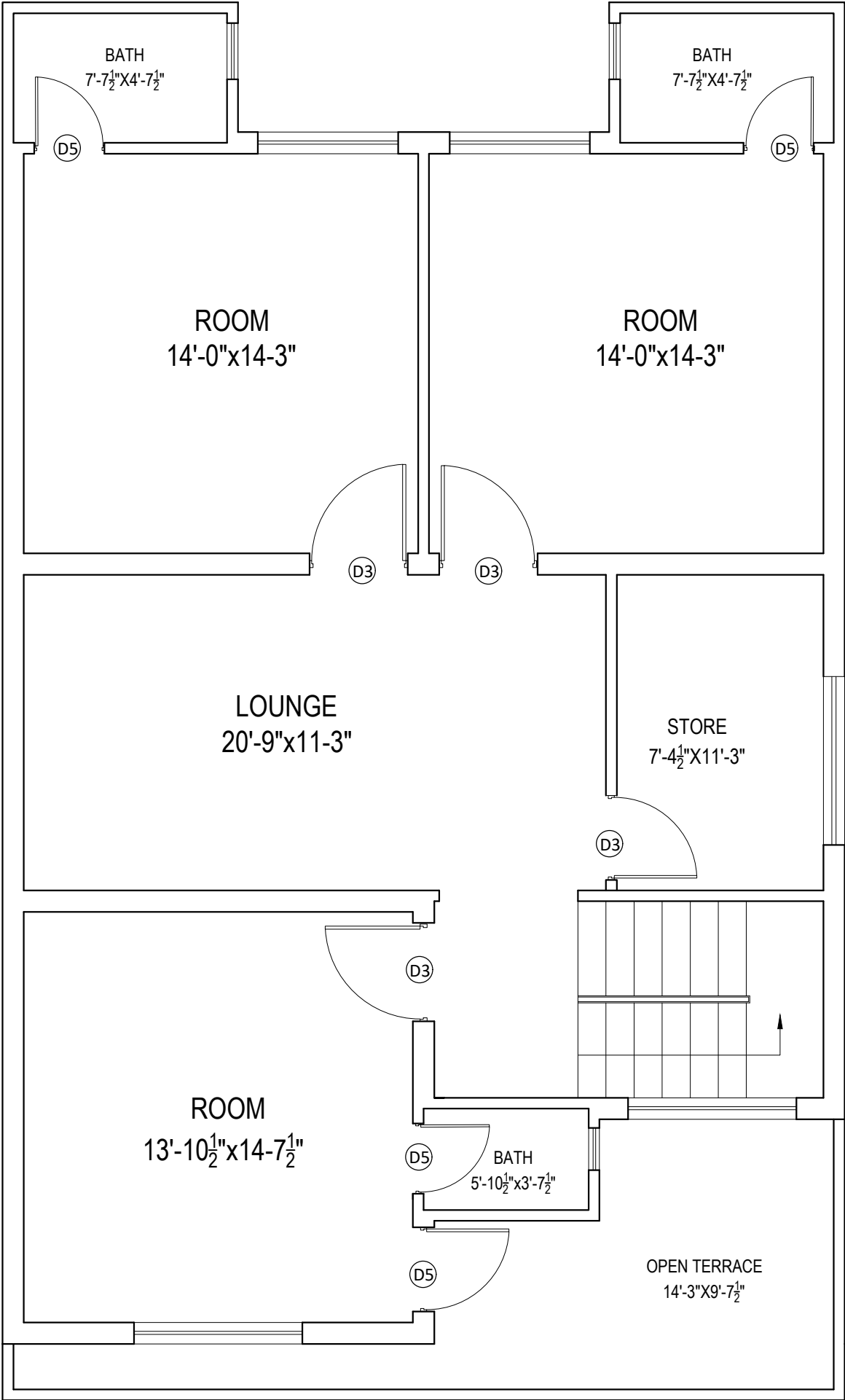
CONSULTANT  ENGINEERING SOLUTION OFFICE #11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 0343-35000203 e-mail: lahore@civiltech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE WORKING PLAN	ORIENTATION	DWG. NO.	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA
			GROUND FLOOR PLAN		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
			CHECKED BY:		DATE 09 JULY 2025		



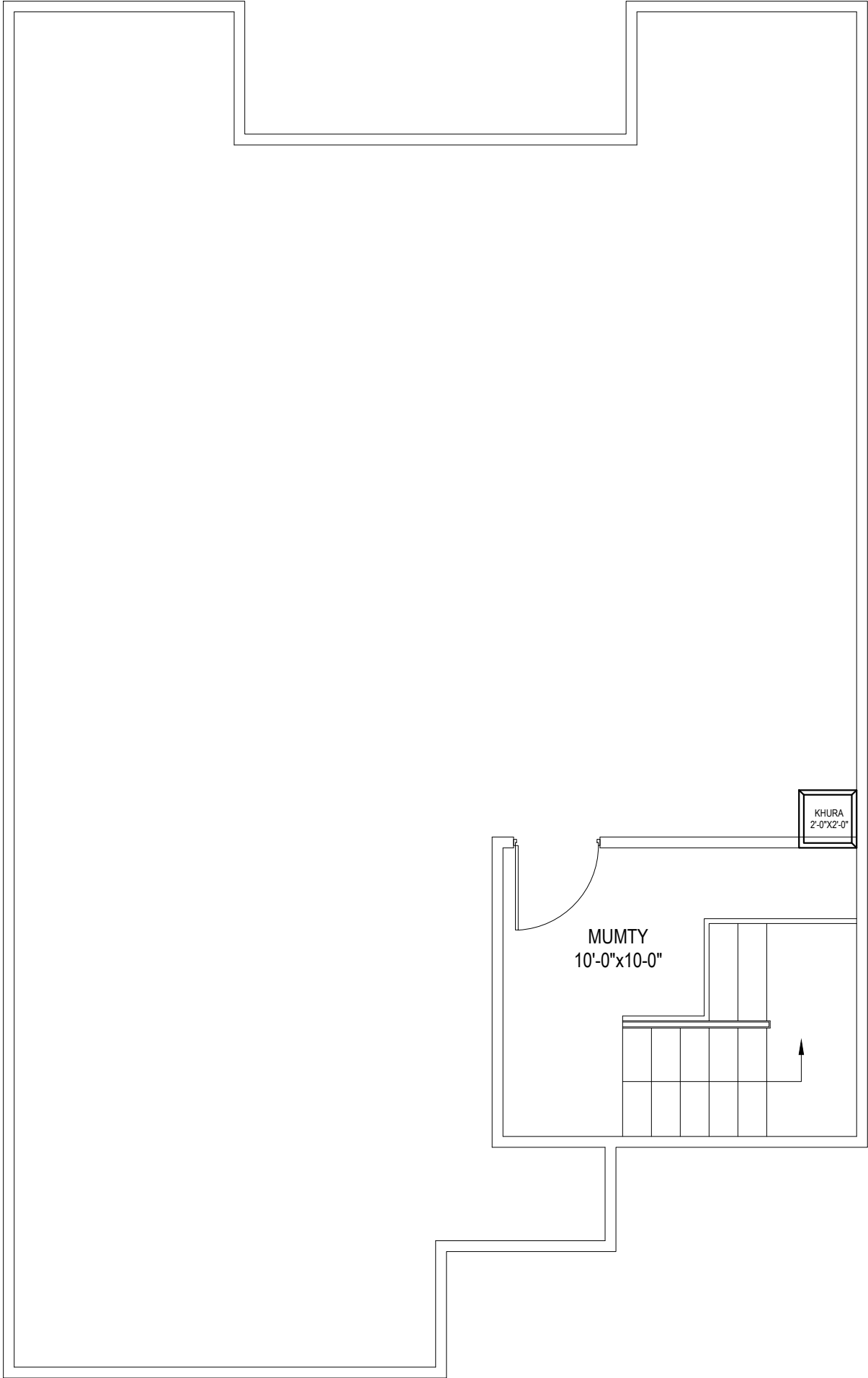
DOOR WINDOW SCHEDULE				
TYPE	WIDE	HIGH	SILL	DESCRIPTION
D1	8'-10.5"	8'-0"	0'-0"	MS STEEL DOOR
D2	4'-0"	7'-0"	0'-0"	MS STEEL DOOR
D3	3'-6"	7'-0"	0'-0"	MS STEEL DOOR
D4	3'-0"	7'-0"	0'-0"	MS STEEL DOOR
D5	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
D6	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
W1	6'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	5'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	3'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
V1	2'-0"	2'-0"	5'-0"	ALUMINUM GLASS WINDOW

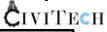


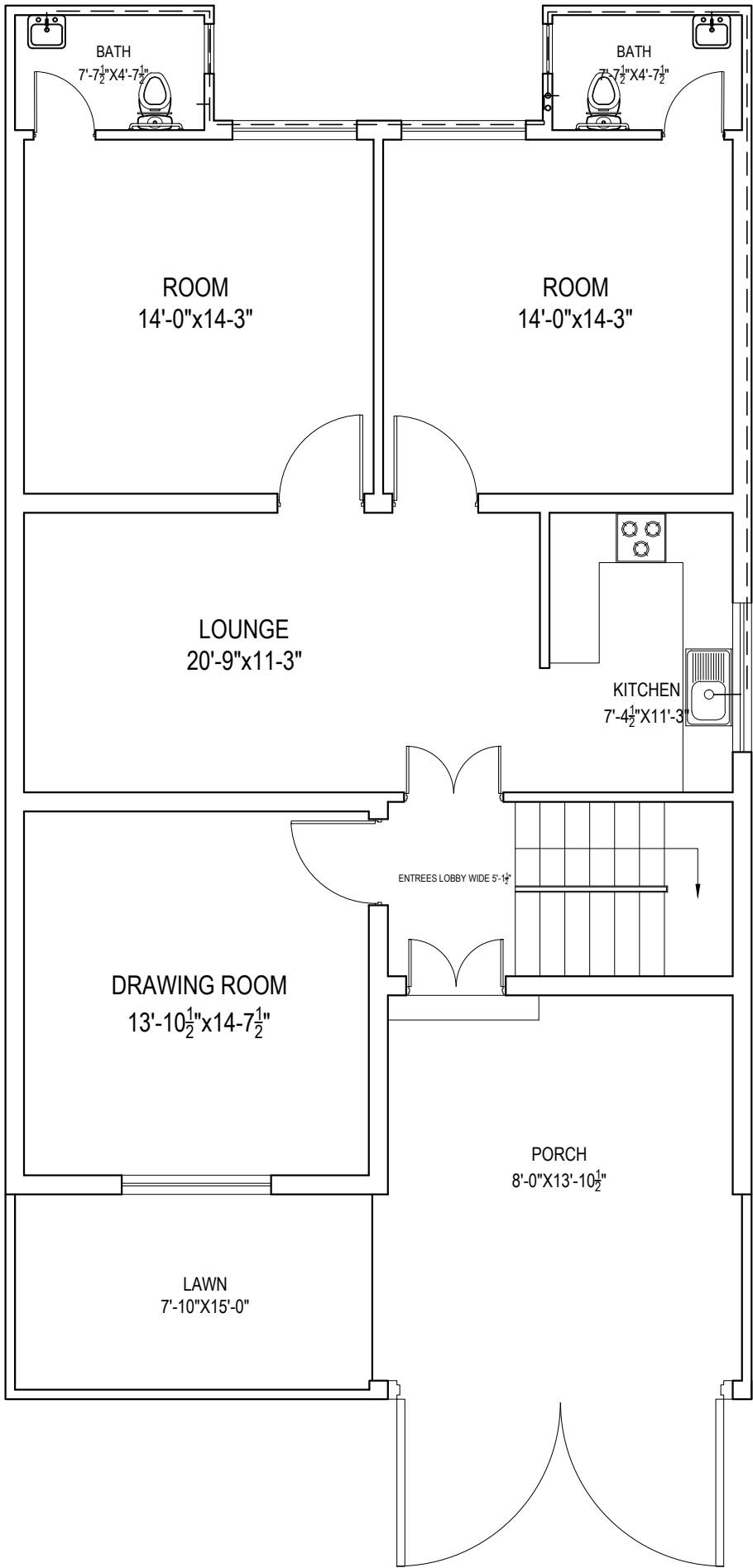
CONSULTANT CIVITECH ENGINEERING SOLUTION OFFICE #11-B, COMMERCIAL PLAZA, 42/002 & 42/0001 SOCIETY, LAHORE Ph: 031-78892220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE GROUND FLOOR PLAN		DESIGNATION	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY:
			DOOR WINDOW SCHEDULE			SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
							CHECKED BY:	DATE 09 JULY 2025

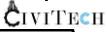


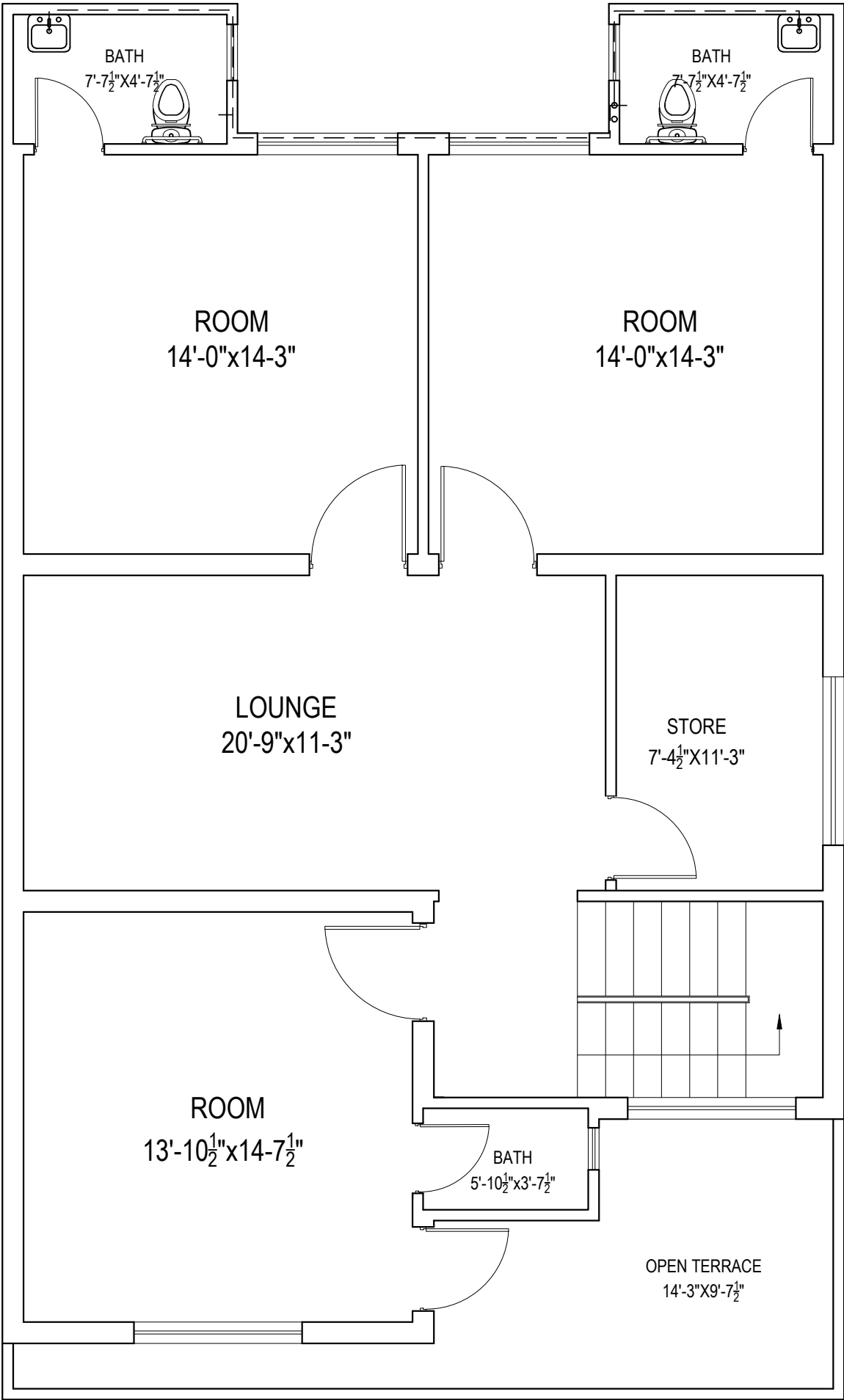
CONSULTANT CIVITECH ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/1007 & 42/10700-10701, LAHORE Ph: 011-76990220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE FIRST FLOOR PLAN DOOR WINDOW SCHEDULE	ORIENTATION 	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY:	DATE 09 JULY 2025
					SHEET NO.	DRAWN BY: SHEHROZ ABBASI		
					SCALE N.T.S.			

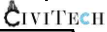


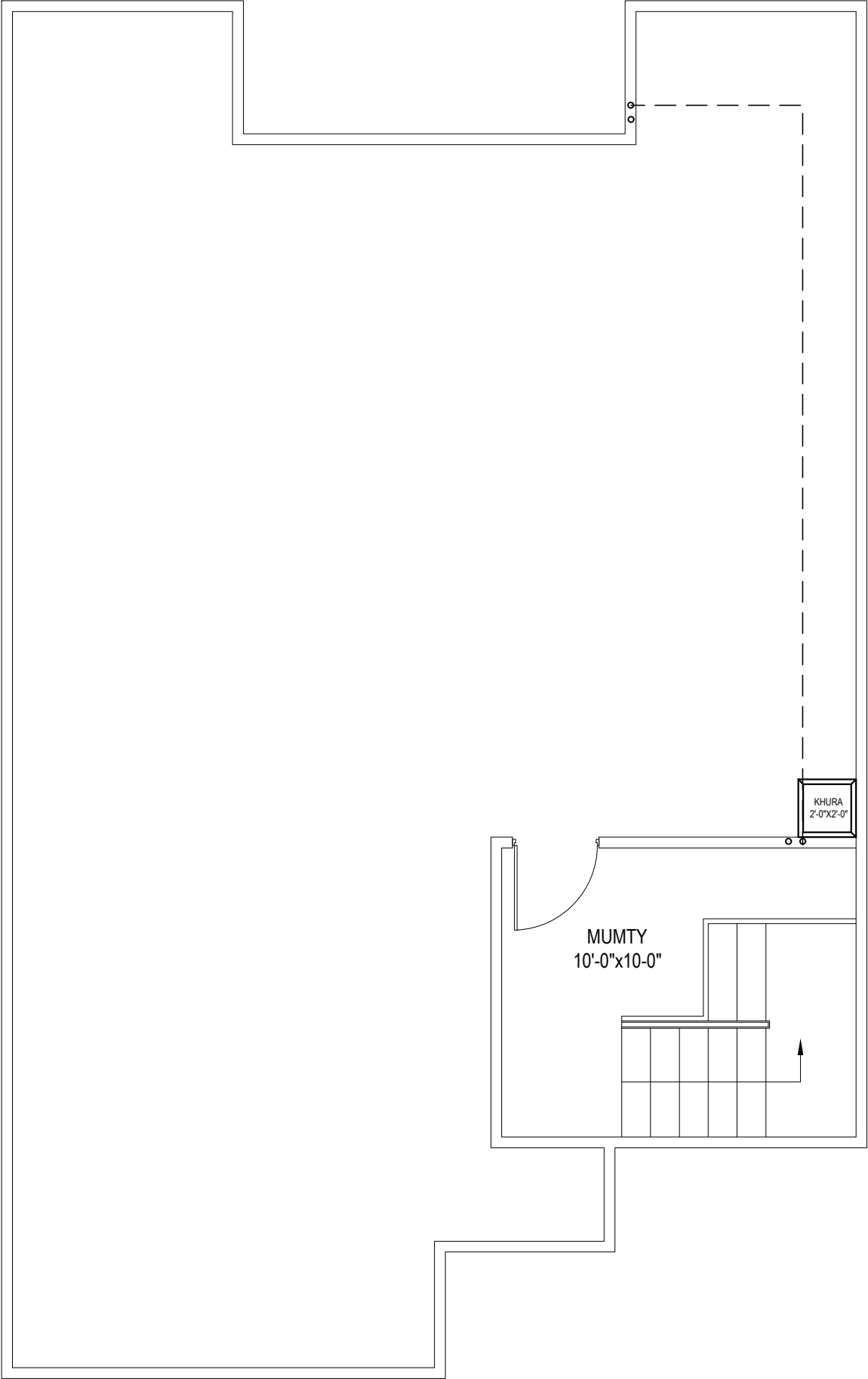
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/100F & 401/10700F VOA SHERA, LAHORE Ph: 031-76980220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN DOOR WINDOW SCHEDULE	ORIENTATION N	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY:	DATE 09 JULY 2025
					SHEET NO.	DRAWN BY: SHEHROZ ABBASI		

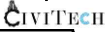


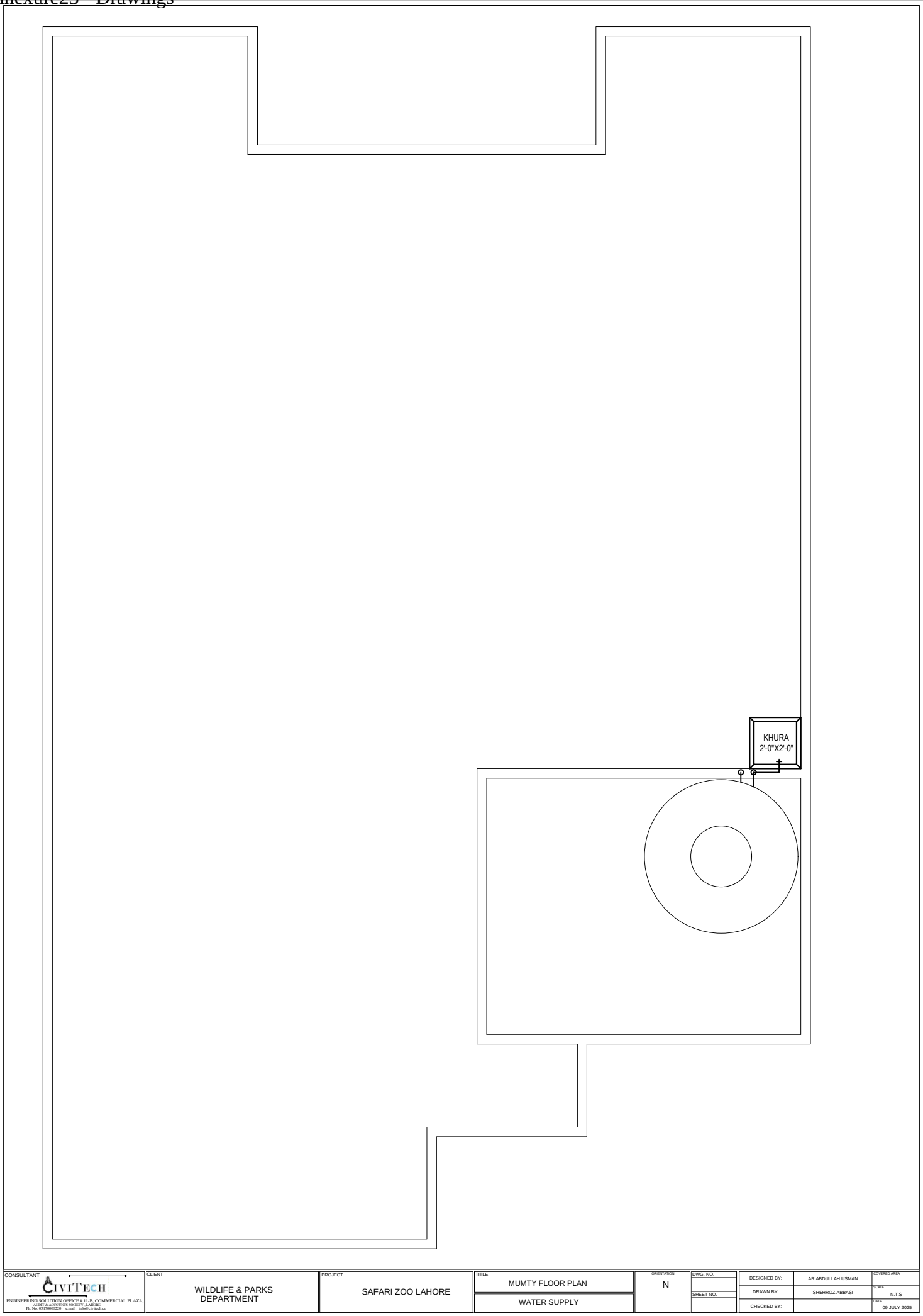
CONSULTANT CIVITECH ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-2/207 & 201 (2ND & 3RD FLOOR) P.O. Box 4773, KARACHI-74200	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE GROUND FLOOR PLAN WATER SUPPLY	DESIGNATION	DWG. NO.	DESIGNED BY:	ARABDULLAH USMAN	CHECKED BY:	DATE
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI		
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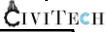


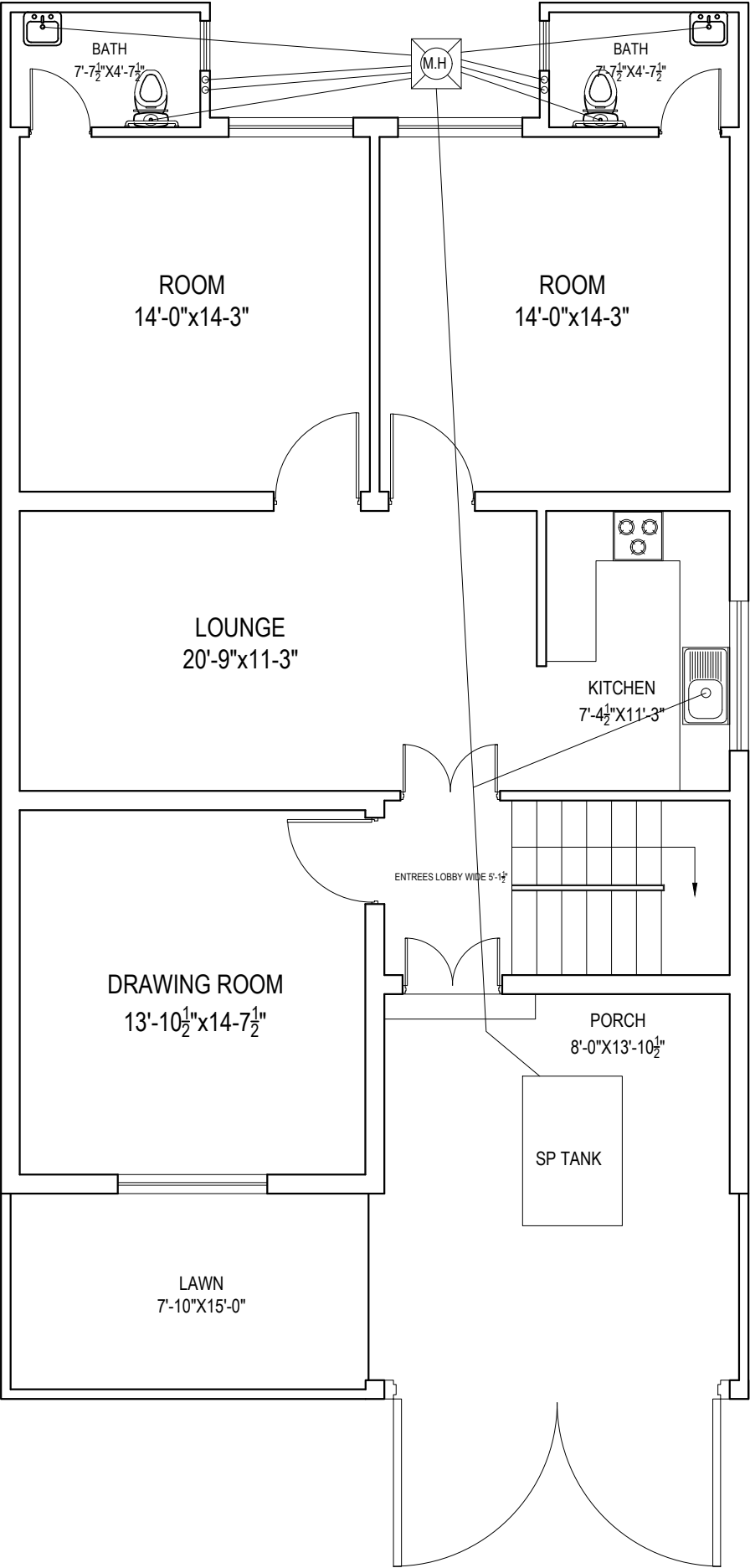
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42100 F & A, 107/108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE FIRST FLOOR PLAN WATER SUPPLY	ORIENTATION N	DWG. NO. SHEET NO.	DESIGNED BY:	ARABDULLAH USMAN	CHECKED BY: DATE 09 JULY 2025
						DRAWN BY:	SHEHROZ ABBASI	
						CHECKED BY:		

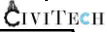


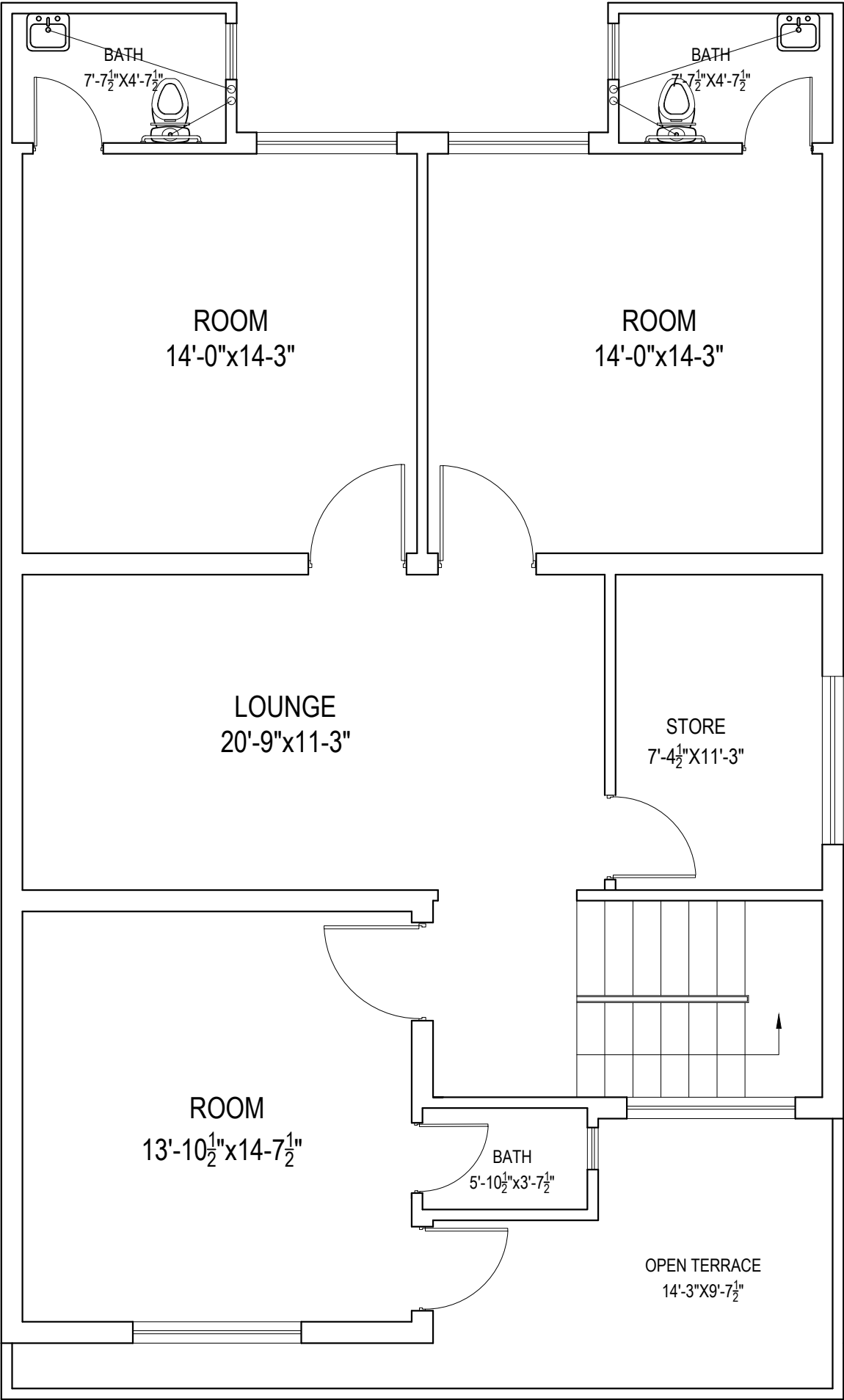
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/1007 & 42/10700-1007071, LAHORE Ph: 011-76860220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN WATER SUPPLY	ORIENTATION N	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY: DATE 09 JULY 2025
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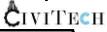


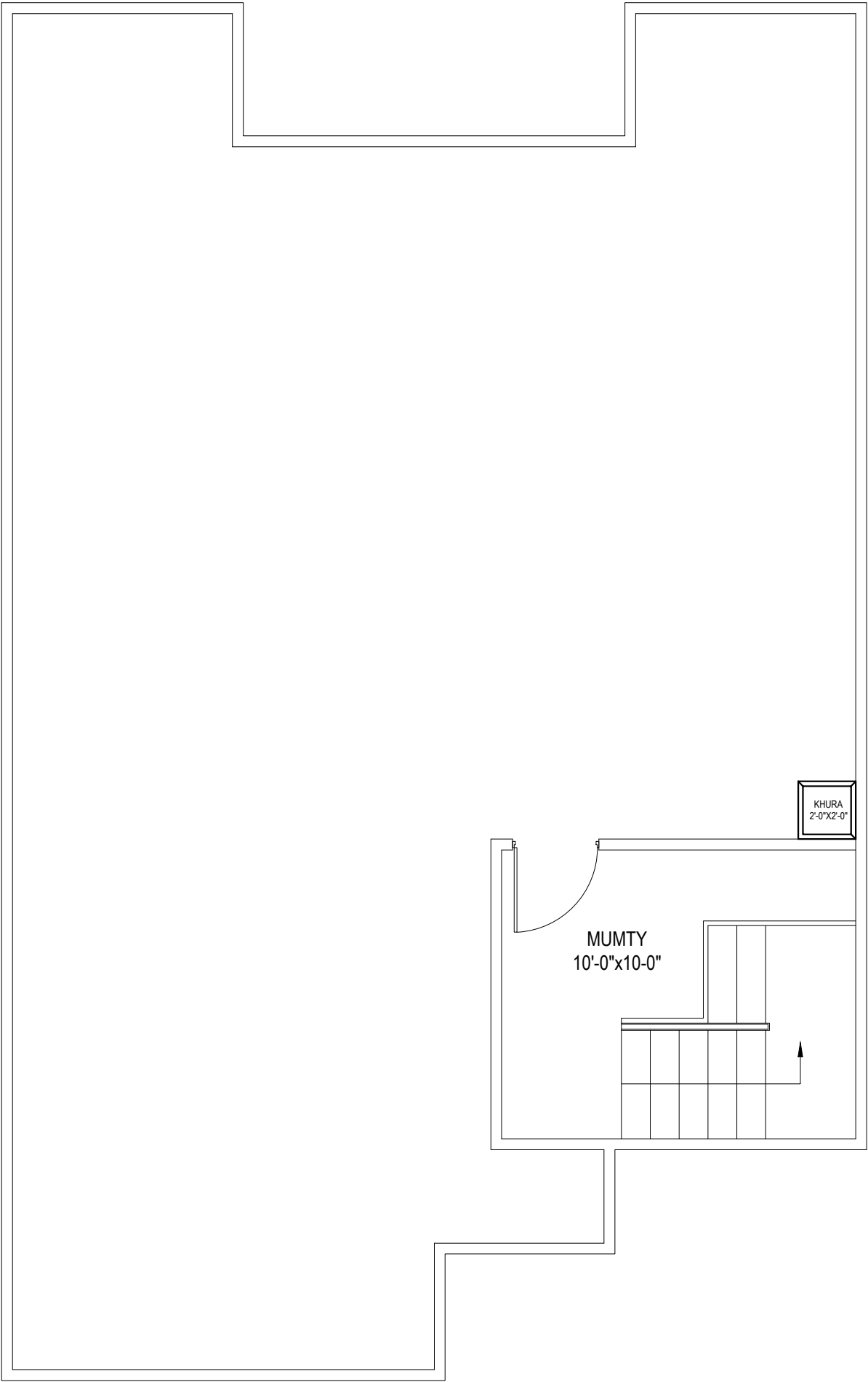
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-2/2, F-2, J-2, K-2, L-2, M-2, N-2, O-2, P-2, Q-2, R-2, S-2, T-2, U-2, V-2, W-2, X-2, Y-2, Z-2, AA-2, AB-2, AC-2, AD-2, AE-2, AF-2, AG-2, AH-2, AI-2, AJ-2, AK-2, AL-2, AM-2, AN-2, AO-2, AP-2, AQ-2, AR-2, AS-2, AT-2, AU-2, AV-2, AW-2, AX-2, AY-2, AZ-2, BA-2, BB-2, BC-2, BD-2, BE-2, BF-2, BG-2, BH-2, BI-2, BJ-2, BK-2, BL-2, BM-2, BN-2, BO-2, BP-2, BQ-2, BR-2, BS-2, BT-2, BU-2, BV-2, BW-2, BX-2, BY-2, BZ-2, CA-2, CB-2, CC-2, CD-2, CE-2, CF-2, CG-2, CH-2, CI-2, CJ-2, CK-2, CL-2, CM-2, CN-2, CO-2, CP-2, CQ-2, CR-2, CS-2, CT-2, CU-2, CV-2, CW-2, CX-2, CY-2, CZ-2, DA-2, DB-2, DC-2, DD-2, DE-2, DF-2, DG-2, DH-2, DI-2, DJ-2, DK-2, DL-2, DM-2, DN-2, DO-2, DP-2, DQ-2, DR-2, DS-2, DT-2, DU-2, DV-2, DW-2, DX-2, DY-2, DZ-2, EA-2, EB-2, EC-2, ED-2, EE-2, EF-2, EG-2, EH-2, EI-2, EJ-2, EK-2, EL-2, EM-2, EN-2, EO-2, EP-2, EQ-2, ER-2, ES-2, ET-2, EU-2, EV-2, EW-2, EX-2, EY-2, EZ-2, FA-2, FB-2, FC-2, FD-2, FE-2, FF-2, FG-2, FH-2, FI-2, FJ-2, FK-2, FL-2, FM-2, FN-2, FO-2, FP-2, FQ-2, FR-2, FS-2, FT-2, FU-2, FV-2, FW-2, FX-2, FY-2, FZ-2, GA-2, GB-2, GC-2, GD-2, GE-2, GF-2, GG-2, GH-2, GI-2, GJ-2, GK-2, GL-2, GM-2, GN-2, GO-2, GP-2, GQ-2, GR-2, GS-2, GT-2, GU-2, GV-2, GW-2, GX-2, GY-2, GZ-2, HA-2, HB-2, HC-2, HD-2, HE-2, HF-2, HG-2, HH-2, HI-2, HJ-2, HK-2, HL-2, HM-2, HN-2, HO-2, HP-2, HQ-2, HR-2, HS-2, HT-2, HU-2, HV-2, HW-2, HX-2, HY-2, HZ-2, IA-2, IB-2, IC-2, ID-2, IE-2, IF-2, IG-2, IH-2, II-2, IJ-2, IK-2, IL-2, IM-2, IN-2, IO-2, IP-2, IQ-2, IR-2, IS-2, IT-2, IU-2, IV-2, IW-2, IX-2, IY-2, IZ-2, JA-2, JB-2, JC-2, JD-2, JE-2, JF-2, JG-2, JH-2, JI-2, JJ-2, JK-2, JL-2, JM-2, JN-2, JO-2, JP-2, JQ-2, JR-2, JS-2, JT-2, JU-2, JV-2, JW-2, JX-2, JY-2, JZ-2, KA-2, KB-2, KC-2, KD-2, KE-2, KF-2, KG-2, KH-2, KI-2, KJ-2, KK-2, KL-2, KM-2, KN-2, KO-2, KP-2, KQ-2, KR-2, KS-2, KT-2, KU-2, KV-2, KW-2, KX-2, KY-2, KZ-2, LA-2, LB-2, LC-2, LD-2, LE-2, LF-2, LG-2, LH-2, LI-2, LJ-2, LK-2, LL-2, LM-2, LN-2, LO-2, LP-2, LQ-2, LR-2, LS-2, LT-2, LU-2, LV-2, LW-2, LX-2, LY-2, LZ-2, MA-2, MB-2, MC-2, MD-2, ME-2, MF-2, MG-2, MH-2, MI-2, MJ-2, MK-2, ML-2, MM-2, MN-2, MO-2, MP-2, MQ-2, MR-2, MS-2, MT-2, MU-2, MV-2, MW-2, MX-2, MY-2, MZ-2, NA-2, NB-2, NC-2, ND-2, NE-2, NF-2, NG-2, NH-2, NI-2, NJ-2, NK-2, NL-2, NM-2, NO-2, NP-2, NQ-2, NR-2, NS-2, NT-2, NU-2, NV-2, NW-2, NX-2, NY-2, NZ-2, OA-2, OB-2, OC-2, OD-2, OE-2, OF-2, OG-2, OH-2, OI-2, OJ-2, OK-2, OL-2, OM-2, ON-2, OO-2, OP-2, OQ-2, OR-2, OS-2, OT-2, OU-2, OV-2, OW-2, OX-2, OY-2, OZ-2, PA-2, PB-2, PC-2, PD-2, PE-2, PF-2, PG-2, PH-2, PI-2, PJ-2, PK-2, PL-2, PM-2, PN-2, PO-2, PP-2, PQ-2, PR-2, PS-2, PT-2, PU-2, PV-2, PW-2, PX-2, PY-2, PZ-2, QA-2, QB-2, QC-2, QD-2, QE-2, QF-2, QG-2, QH-2, QI-2, QJ-2, QK-2, QL-2, QM-2, QN-2, QO-2, QP-2, QQ-2, QR-2, QS-2, QT-2, QU-2, QV-2, QW-2, QX-2, QY-2, QZ-2, RA-2, RB-2, RC-2, RD-2, RE-2, RF-2, RG-2, RH-2, RI-2, RJ-2, RK-2, RL-2, RM-2, RN-2, RO-2, RP-2, RQ-2, RR-2, RS-2, RT-2, RU-2, RV-2, RW-2, RX-2, RY-2, RZ-2, SA-2, SB-2, SC-2, SD-2, SE-2, SF-2, SG-2, SH-2, SI-2, SJ-2, SK-2, SL-2, SM-2, SN-2, SO-2, SP-2, SQ-2, SR-2, SS-2, ST-2, SU-2, SV-2, SW-2, SX-2, SY-2, SZ-2, TA-2, TB-2, TC-2, TD-2, TE-2, TF-2, TG-2, TH-2, TI-2, TJ-2, TK-2, TL-2, TM-2, TN-2, TO-2, TP-2, TQ-2, TR-2, TS-2, TU-2, TV-2, TW-2, TX-2, TY-2, TZ-2, UA-2, UB-2, UC-2, UD-2, UE-2, UF-2, UG-2, UH-2, UI-2, UJ-2, UK-2, UL-2, UM-2, UN-2, UO-2, UP-2, UQ-2, UR-2, US-2, UT-2, UU-2, UV-2, UW-2, UX-2, UY-2, UZ-2, VA-2, VB-2, VC-2, VD-2, VE-2, VF-2, VG-2, VH-2, VI-2, VJ-2, VK-2, VL-2, VM-2, VN-2, VO-2, VP-2, VQ-2, VR-2, VS-2, VT-2, VU-2, VV-2, VW-2, VX-2, VY-2, VZ-2, WA-2, WB-2, WC-2, WD-2, WE-2, WF-2, WG-2, WH-2, WI-2, WJ-2, WK-2, WL-2, WM-2, WN-2, WO-2, WP-2, WQ-2, WR-2, WS-2, WT-2, WU-2, WV-2, WW-2, WX-2, WY-2, WZ-2, XA-2, XB-2, XC-2, XD-2, XE-2, XF-2, XG-2, XH-2, XI-2, XJ-2, XK-2, XL-2, XM-2, XN-2, XO-2, XP-2, XQ-2, XR-2, XS-2, XT-2, XU-2, XV-2, XW-2, XX-2, XY-2, XZ-2, YA-2, YB-2, YC-2, YD-2, YE-2, YF-2, YG-2, YH-2, YI-2, YJ-2, YK-2, YL-2, YM-2, YN-2, YO-2, YP-2, YQ-2, YR-2, YS-2, YT-2, YU-2, YV-2, YW-2, YX-2, YY-2, YZ-2, ZA-2, ZB-2, ZC-2, ZD-2, ZE-2, ZF-2, ZG-2, ZH-2, ZI-2, ZJ-2, ZK-2, ZL-2, ZM-2, ZN-2, ZO-2, ZP-2, ZQ-2, ZR-2, ZS-2, ZT-2, ZU-2, ZV-2, ZW-2, ZX-2, ZY-2, ZZ-2	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN WATER SUPPLY	ORIENTATION N	DWG. NO. SHEET NO.	DESIGNED BY: ARABDULLAH USMAN DRAWN BY: SHEHROZ ABBASI CHECKED BY:	DESIGNED BY: ARABDULLAH USMAN DRAWN BY: SHEHROZ ABBASI CHECKED BY:	DATE 09 JULY 2025



CONSULTANT CIVITECH ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/1007 & 42/10700-104/1071, LAHORE Ph: 011-76880220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE GROUND FLOOR PLAN SEWERAGE SUPPLY	ORIENTATION 	DWG. NO. SHEET NO.	DESIGNED BY:	ARABDULLAH USMAN	CHECKED BY:	DATE 09 JULY 2025
						DRAWN BY:	SHEHROZ ABBASI		
						CHECKED BY:			

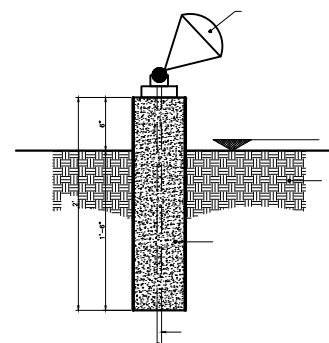
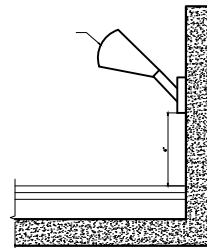


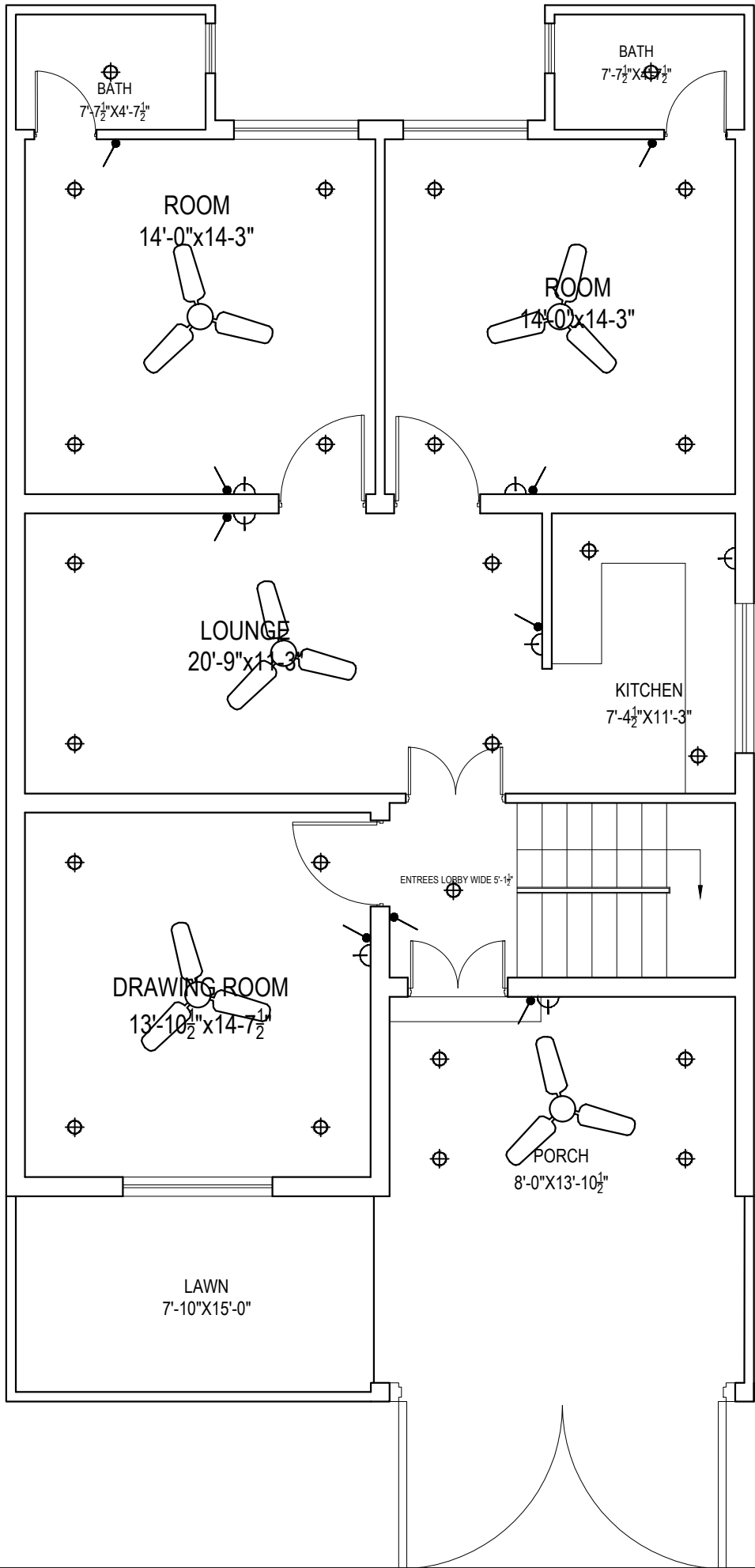
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						DRAWN BY:	SHEHROZ ABBASI		

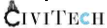


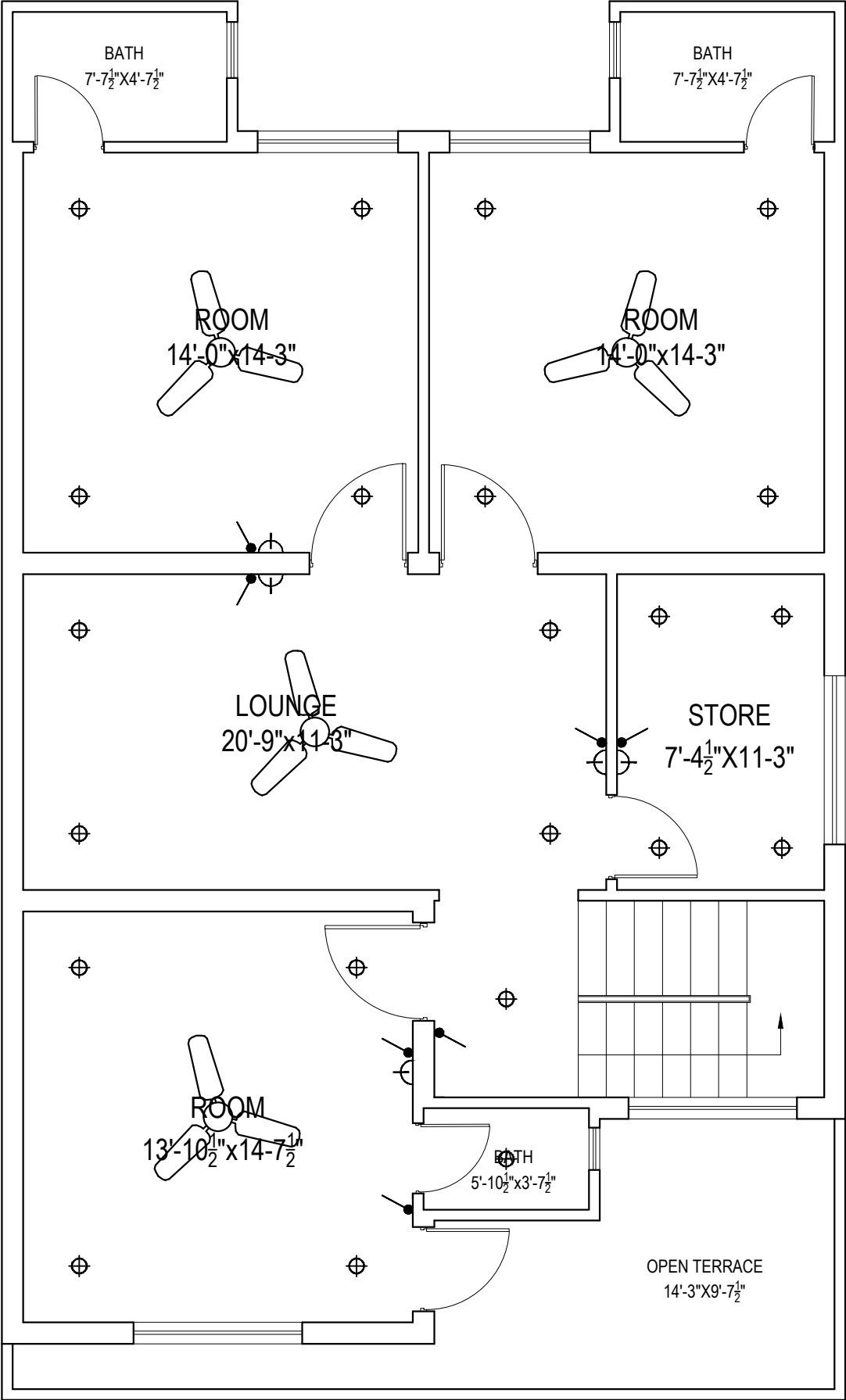
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/1007 & 42/101008-104/101071, LAHORE Ph: 011-76860220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN SEWERAGE SUPPLY	ORIENTATION	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY:
					SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
					DATE 09 JULY 2025		

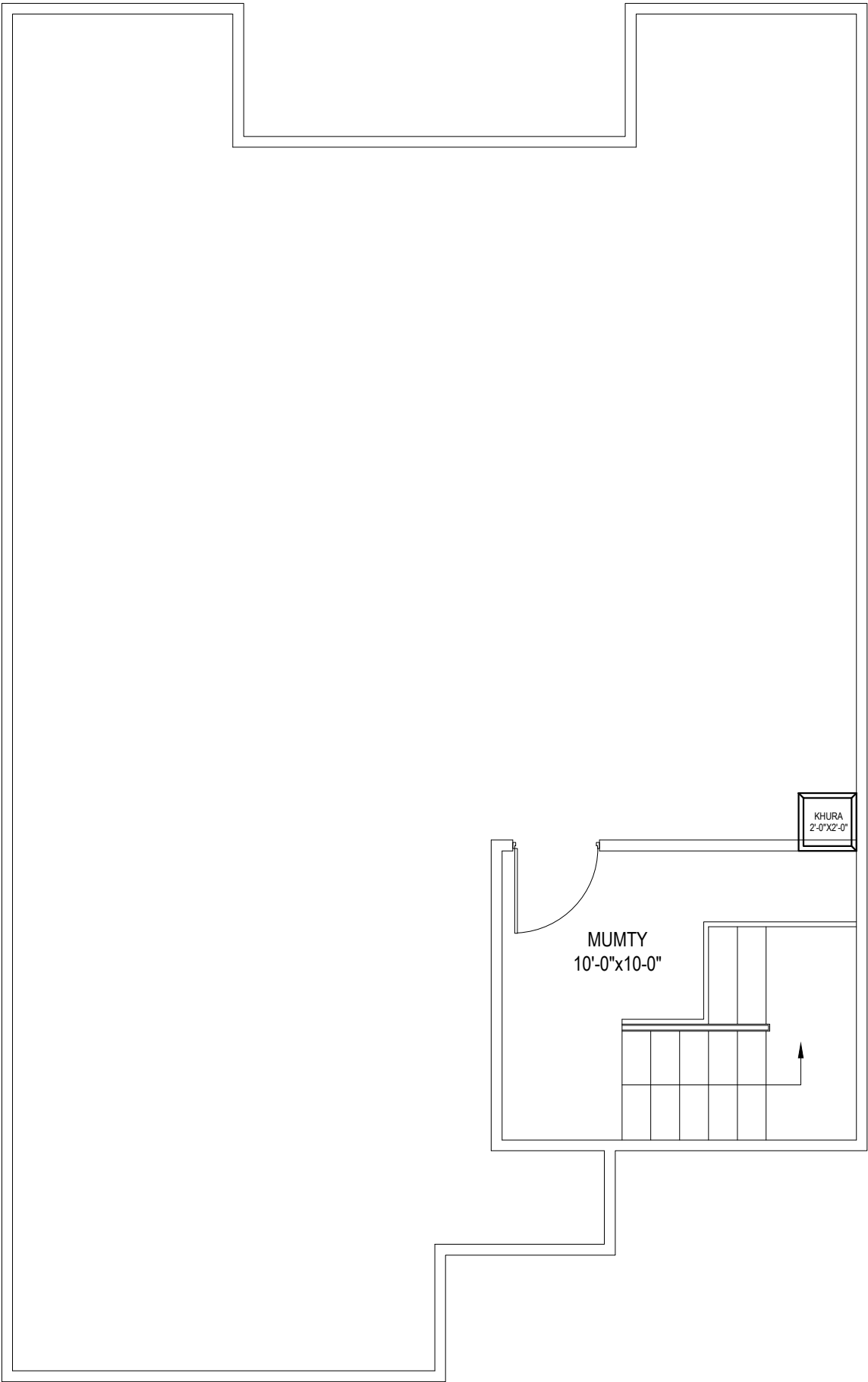
LEGEND FOR ELECTRICAL		
SYMBOL	DESCRIPTION	MOUNTING HT.
	5 Amp: SINGLE POLE FLUSH TYPE SWITCH BOARD	3'-6"
	5 Amp: 2 WAY FLUSH TYPE SWITCH POINT	3'-6"
	CEILING LIGHT POINT	
	WALL BRACKET LIGHT POINT	7'-6"
	EXTERNAL WALL BRACKET WATER PROOF LIGHT	7'-6"
	HANGING CORNER LIGHT POINT	
	WATER PROOF PLANT LIGHT POINT	1'-0"
	GARDEN LIGHT POINT	3'-6"
	MOTION DETECTOR LIGHT	3'-6"
	FACADE LIGHT	0'-6"
	SHANDLEAR POINT	
	TUBE LIGHT UNDER KITCHEN WALL CABINET	
	MAIN GATE LIGHT POINT	
	TRACK LIGHT	7'-6"
	CCTV CAMERA WITH 5 AMP: LIGHT PLUG	8'-6"
	T.V CABLE POINT	0'-9"
	CCTV CAMERA CONTROL POINT	0'-9"
	TELEPHONE / INTERCOM PLUG POINT	0'-9"
	NETWORKING POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	3'-6"
	3-PIN 15Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR U.G.W.T MOTOR PUMP	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR WATER COLLECTION CHAMBER SUBMERSIBLE PUMP	
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T AUTOMATIC SWITCH FOR WATER PUMP	1'-0" DN. FROM O.H.W.T SLAB
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T PRESSURE PUMP	2'-0" UP. FROM FIN. ROOF LEV.
	BELL PUSH POINT	3'-6"
	BUZZER POINT	8'-0"
	CEILING FAN POINT WITH REGULATOR	
	WALL BRACKET FAN POINT	7'-6"
	EXHAUST FAN POINT	
	SPLIT TYPE A/C UNIT	7'-6" (BOTTOM)
	MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	SUB-MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	TELEPHONE / CABLE D.B	0'-9" (BOTTOM)
	EARTH SET COMPLETE	
	LIGHT WIRING	
	POWER PLUG WIRING	
	INCOMING MAIN CABLE	
	UNDER GROUND WIRING	





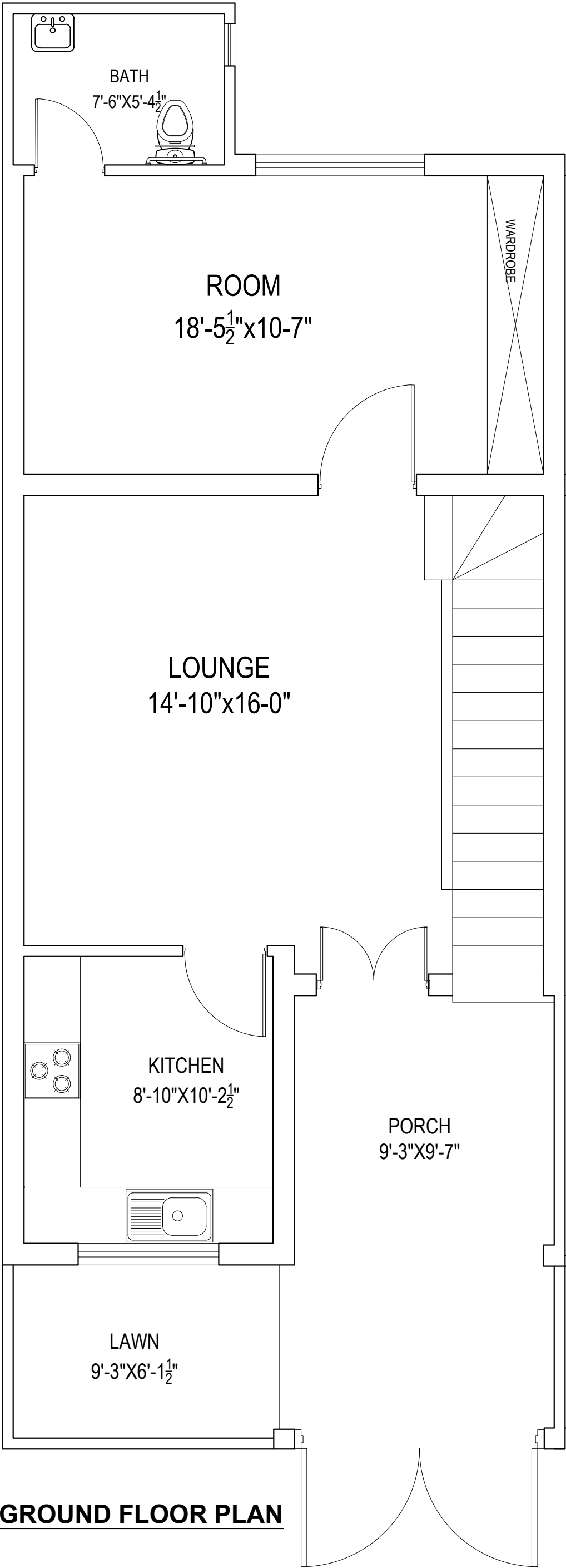
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, 42/687 & 42/127/135 V/O 9/17, LAHORE Ph: 031 77889220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE GROUND FLOOR PLAN ELECTRICAL PLAN	DESIGNATION	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN SCALE N.T.S CHECKED BY: DATE 09 JULY 2025
					SHEET NO.	





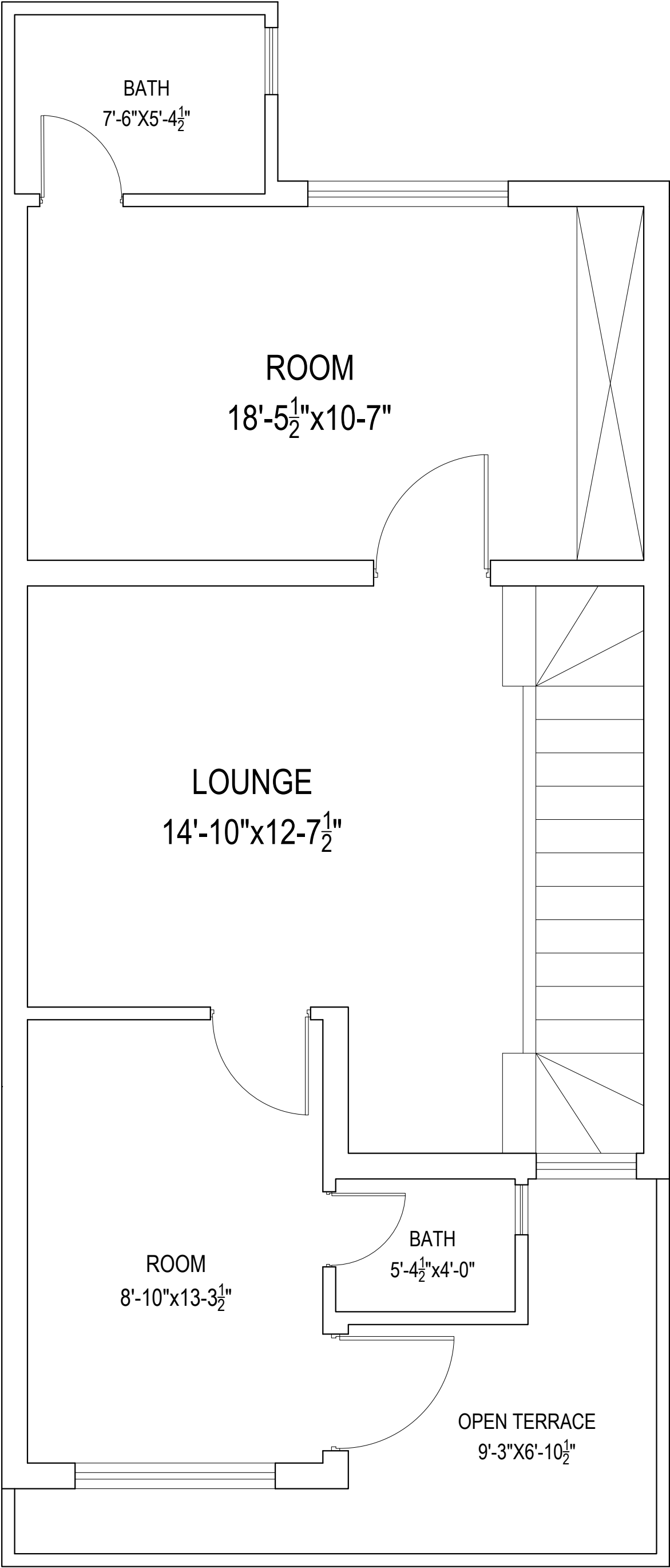
CONSULTANT  ENGINEERING SOLUTION OFFICE #11-B, COMMERCIAL PLAZA, 42/1007 & 42/10700-104/10717, LAHORE Ph: 031-35890220 e-mail: info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN ELECTRICAL PLAN		ORIENTATION	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	CHECKED BY:	COVERED AREA	
						SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S	DATE 09 JULY 2025	
							CHECKED BY:			

PROPOSED BUILDING FOR
STAFF RESIDENCE (VO OFFICE)
WORKING DRAWINGS JULY, 2025



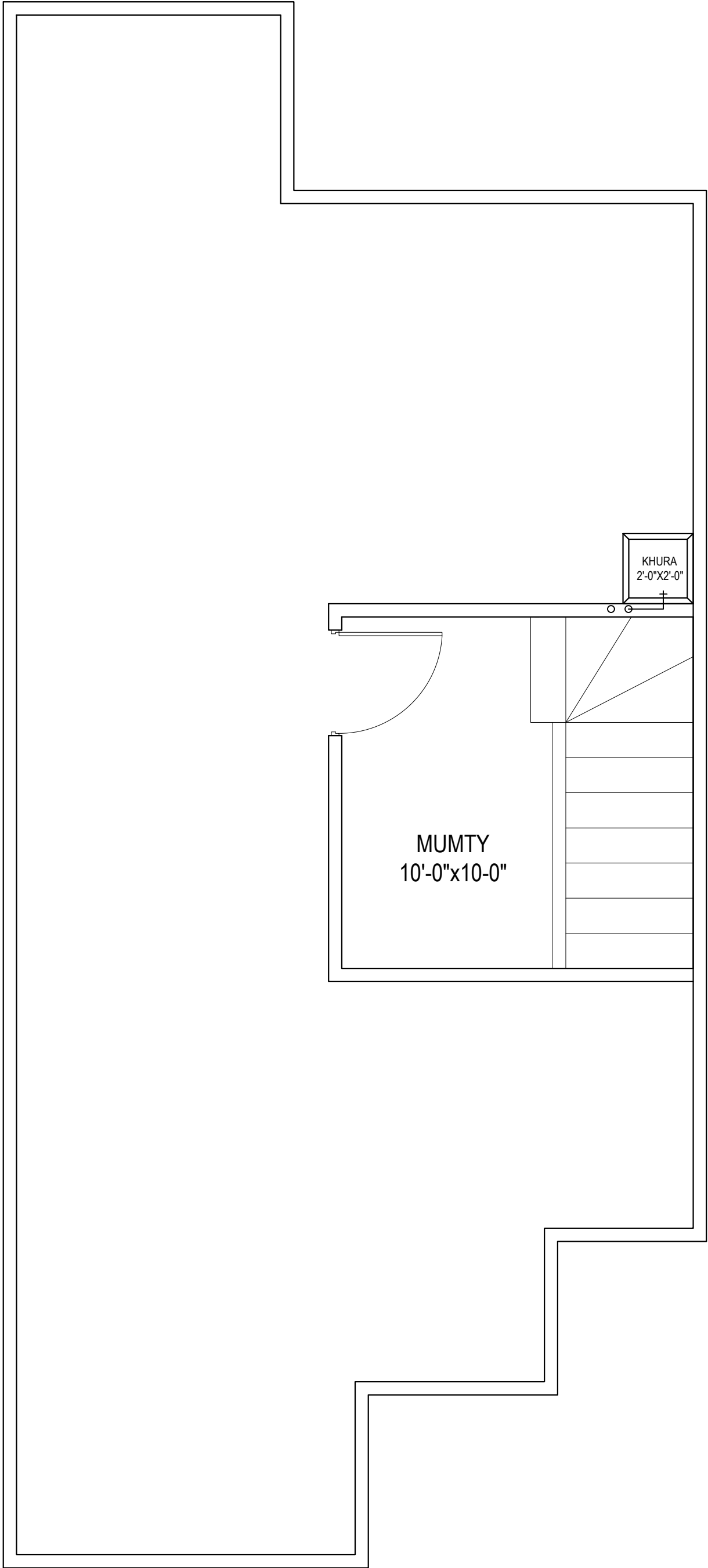
GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S
								DATE
			ARCHITECTURE PLAN					
			GROUND FLOOR PLAN					09 JULY 2025



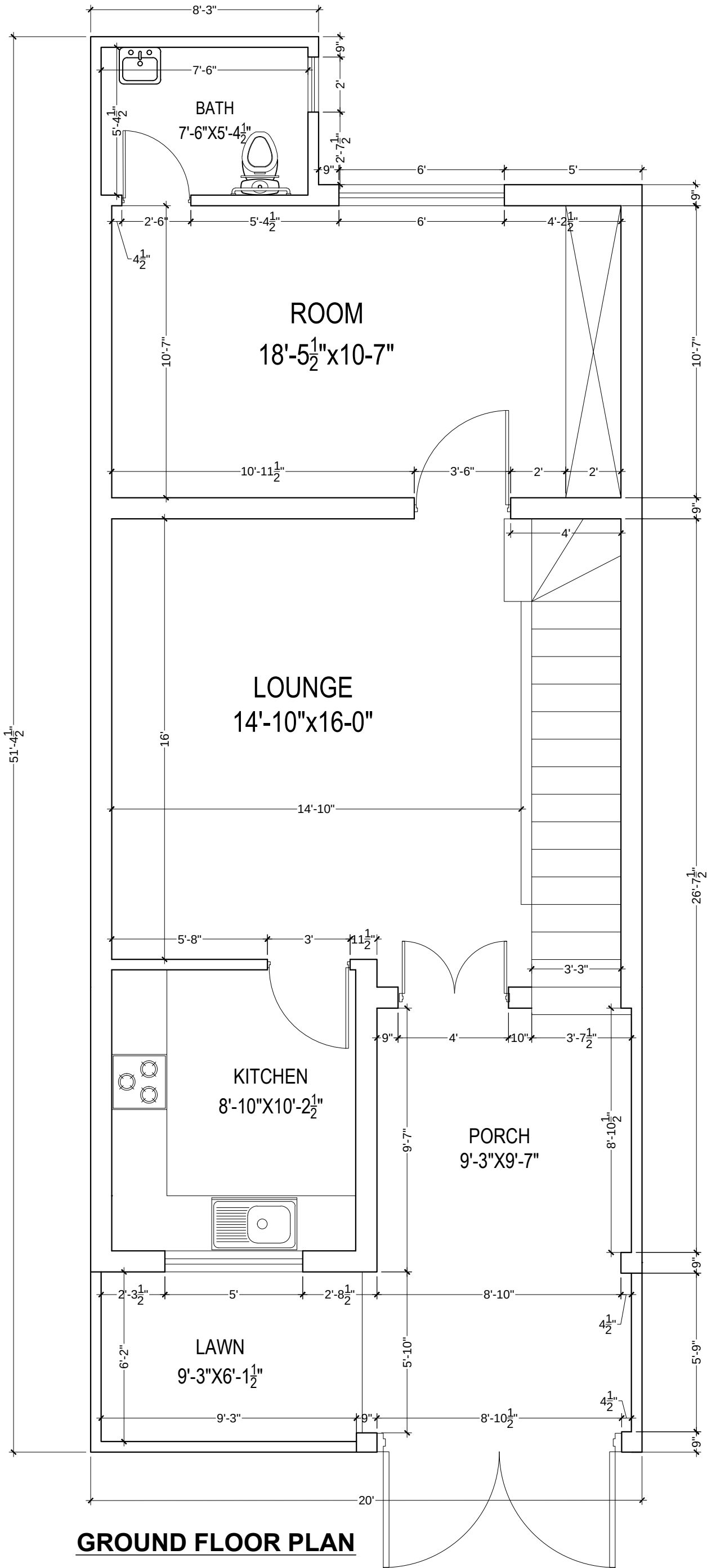
FIRST FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			ARCHITECTURE PLAN			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
			FIRST FLOOR PLAN				CHECKED BY:		N.T.S



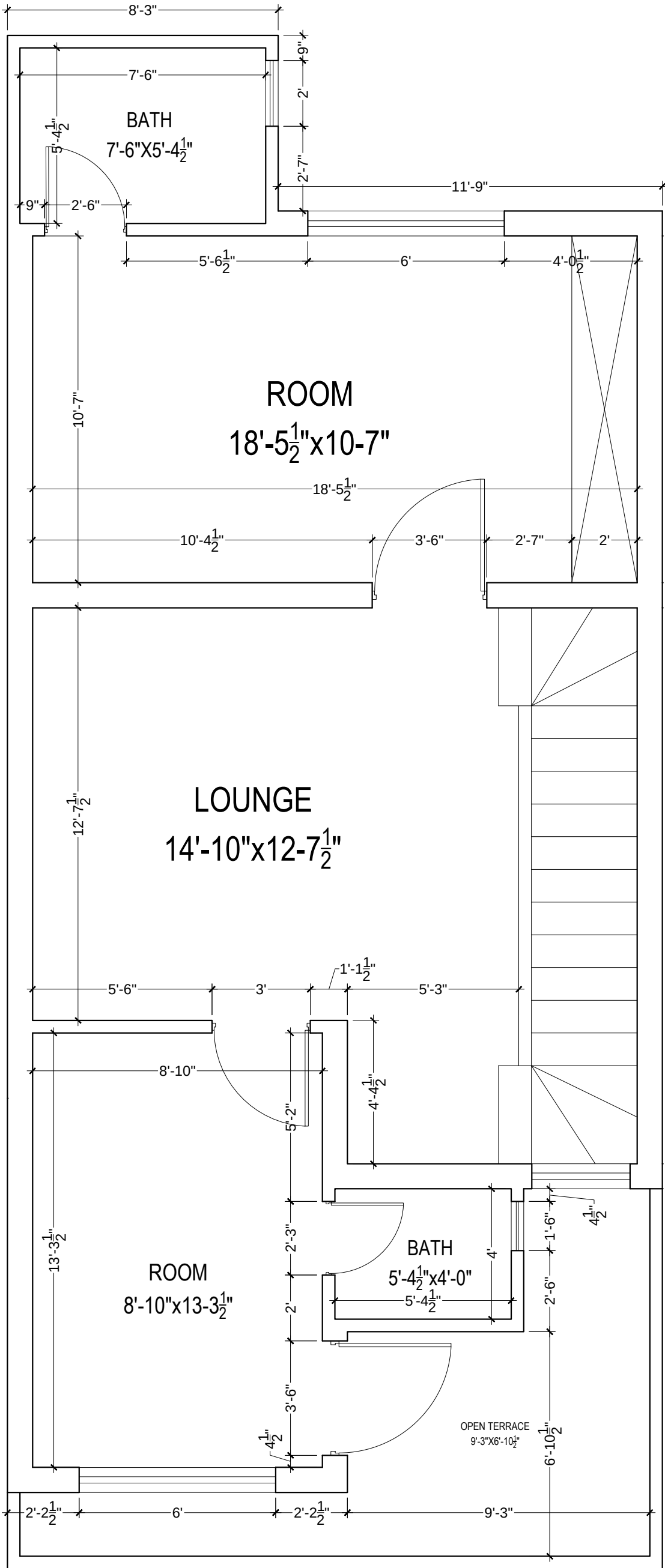
MUMTY PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE. Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	ARCHITECTURE PLAN	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
								SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
									CHECKED BY:		N.T.S
MUMTY PLAN											



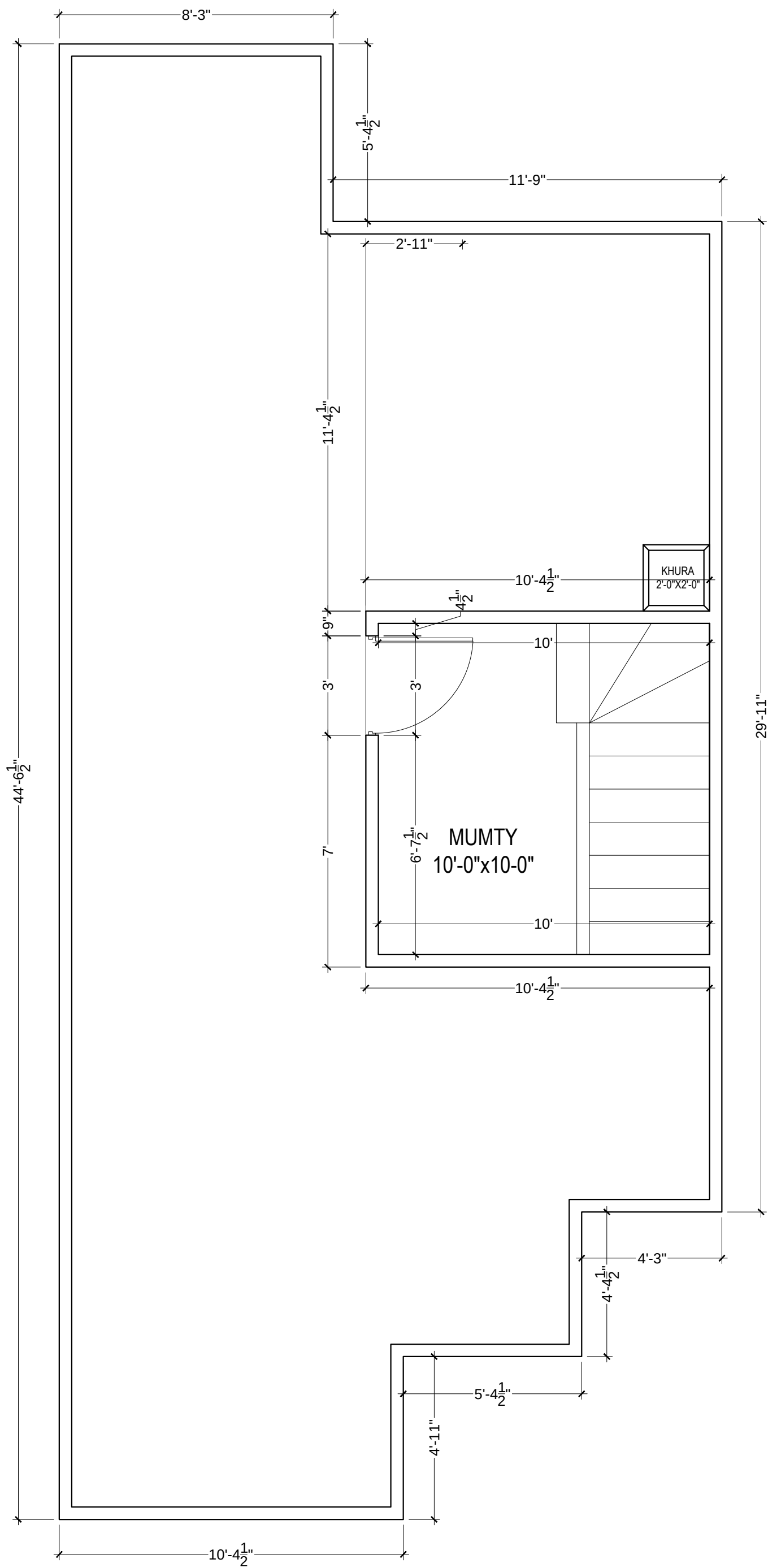
GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, ALFAT & ACCOUNTS SOCIETY, LAHORE. Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA		
								DRAWN BY:	SHEHROZ ABBASI	SCALE		
							SHEET NO.	CHECKED BY:		N.T.S		
										DATE		
										09 JULY 2025		



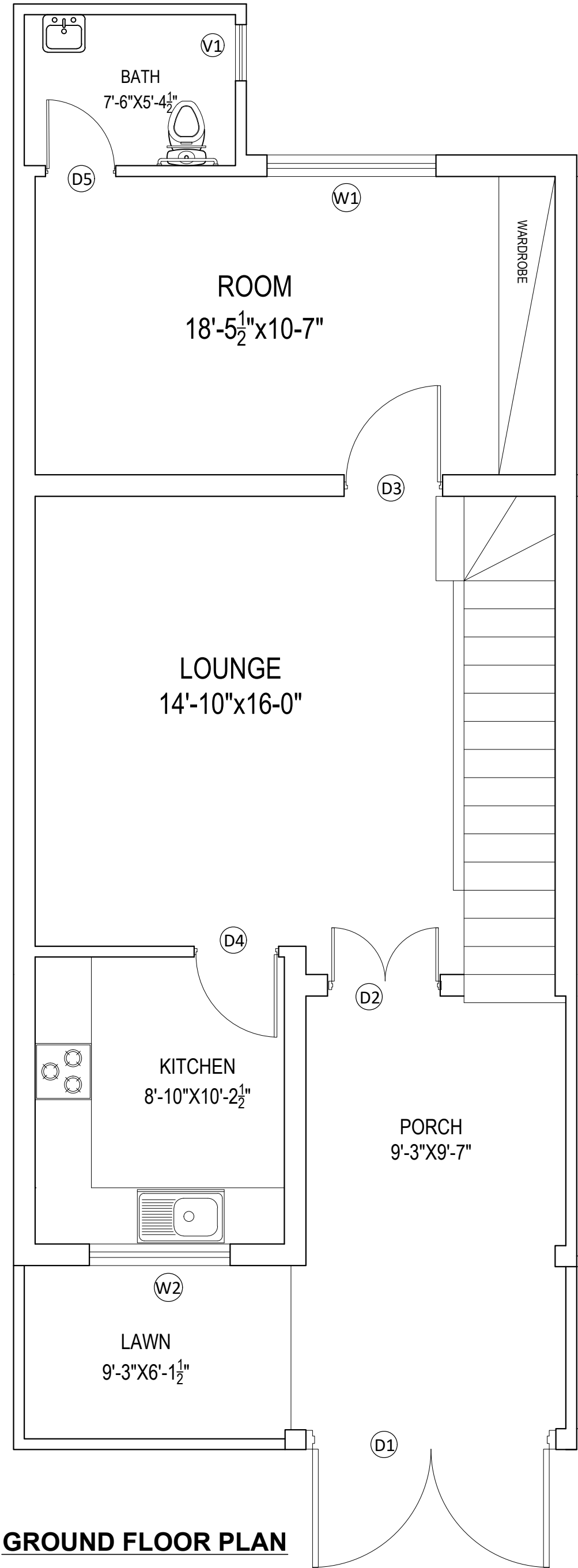
FIRST FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, GILDI & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	WORKING PLAN	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
						FIRST FLOOR PLAN		SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
									CHECKED BY:		DATE



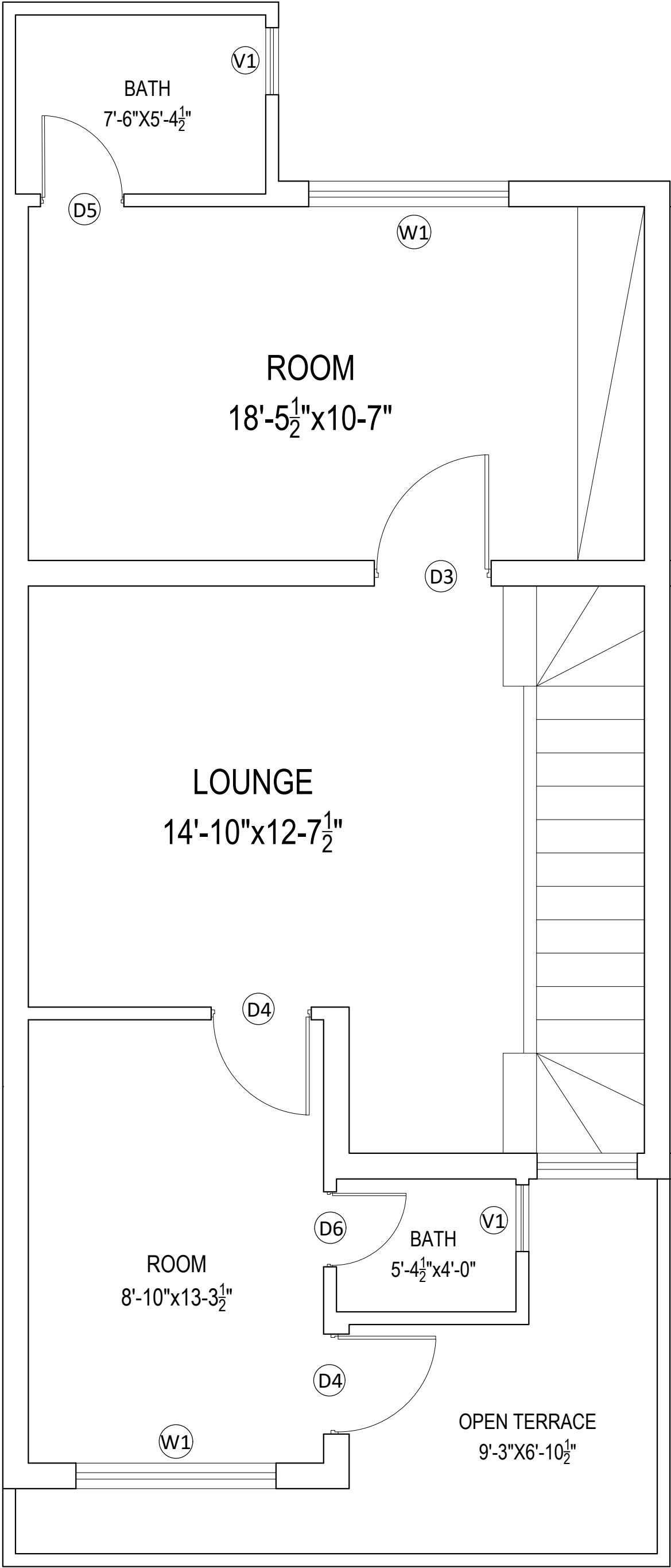
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY - LAHORE Ph. No. 03170060220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			WORKING PLAN		SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						MUMTY PLAN	CHECKED BY:	
								N.T.S
								09 JULY 2025

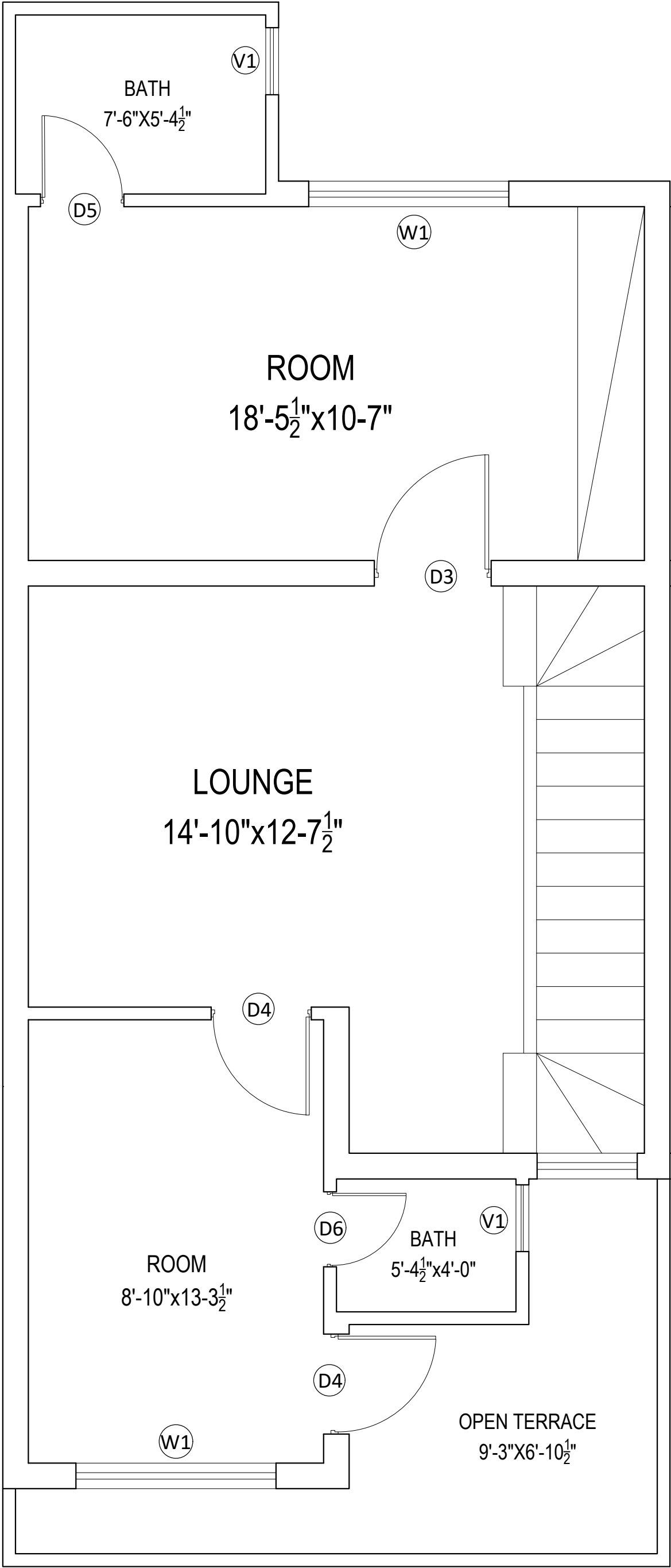
DOOR WINDOW SCHEDULE				
TYPE	WIDE	HIGH	SILL	DESCRIPTION
D1	8'-10.5"	8'-0"	0'-0"	MS STEEL DOOR
D2	4'-0"	7'-0"	0'-0"	MS STEEL DOOR
D3	3'-6"	7'-0"	0'-0"	MS STEEL DOOR
D4	3'-0"	7'-0"	0'-0"	MS STEEL DOOR
D5	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
D6	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
W1	6'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	5'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	3'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
V1	2'-0"	2'-0"	5'-0"	ALUMINUM GLASS WINDOW

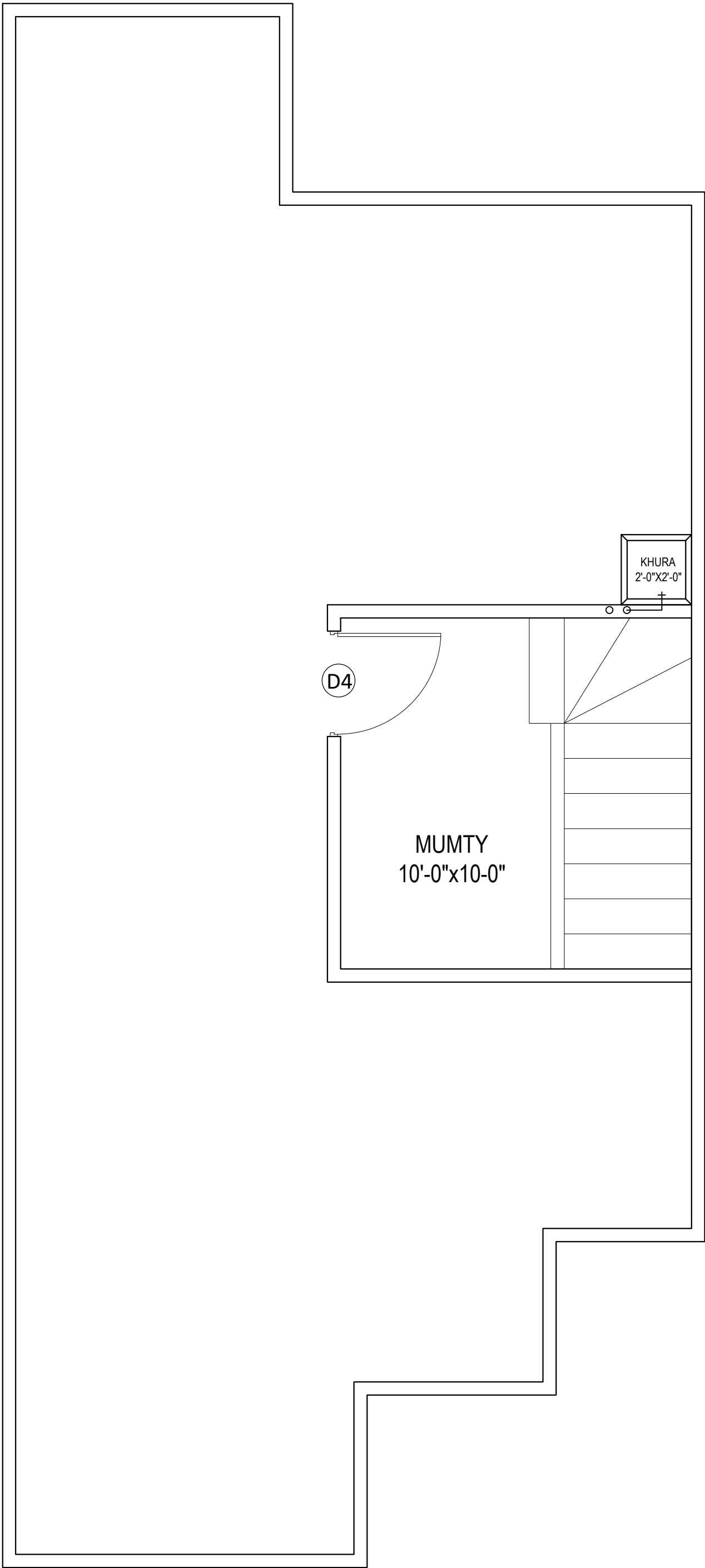


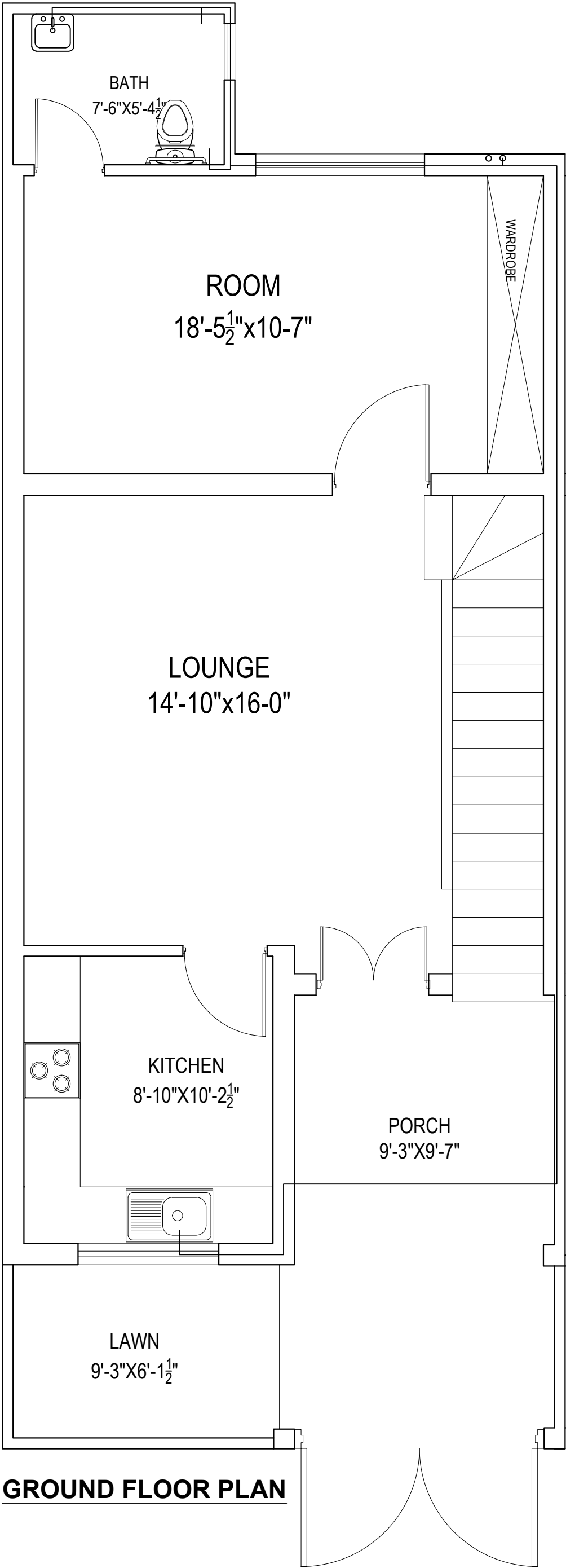
GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 0317000020 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
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						CHECKED BY:		N.T.S
								DATE
								09 JULY 2025



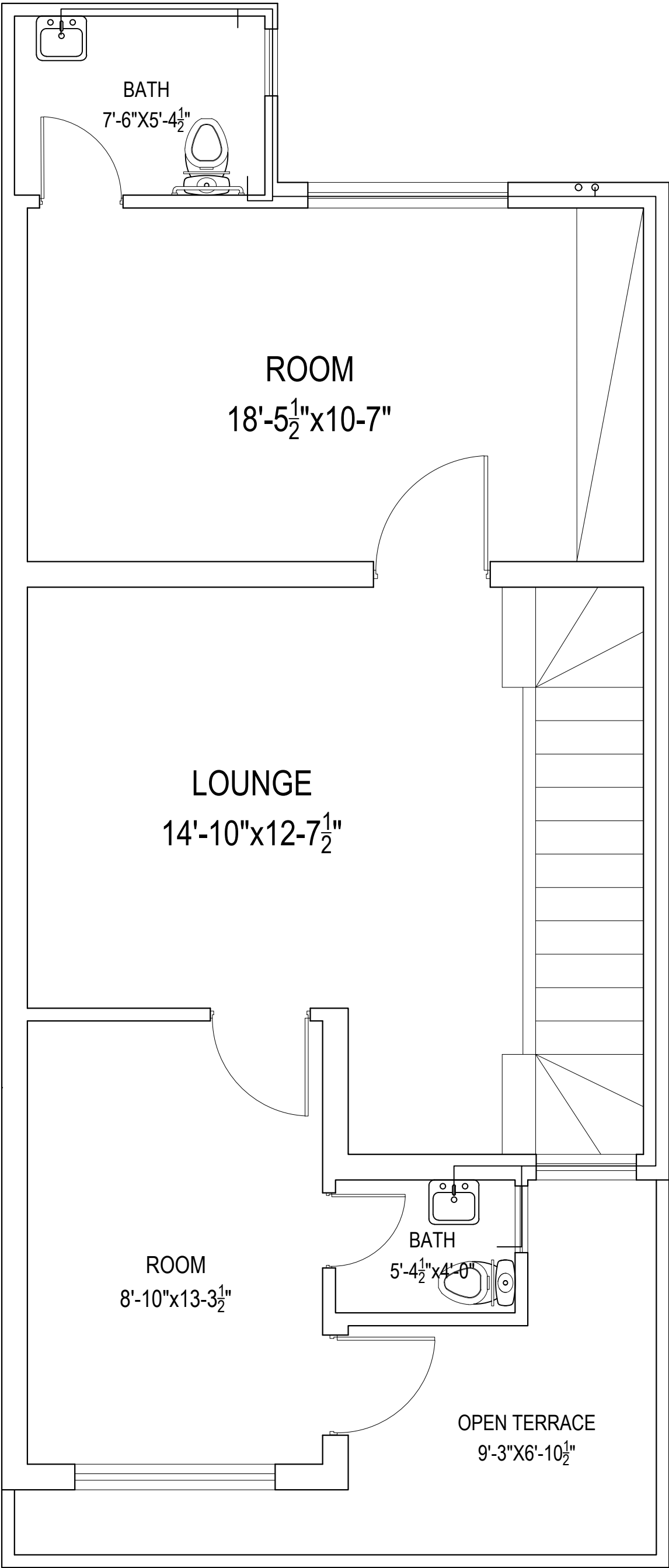




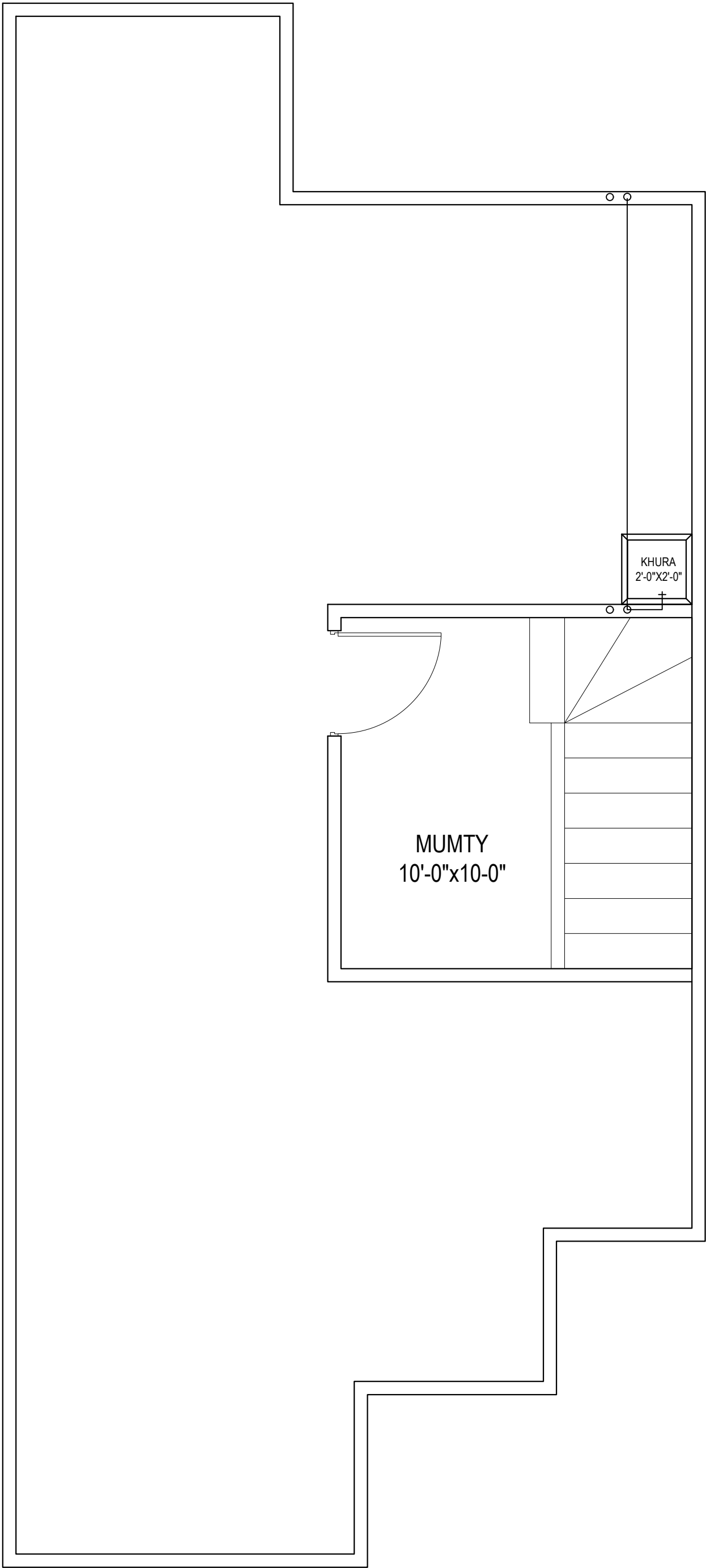


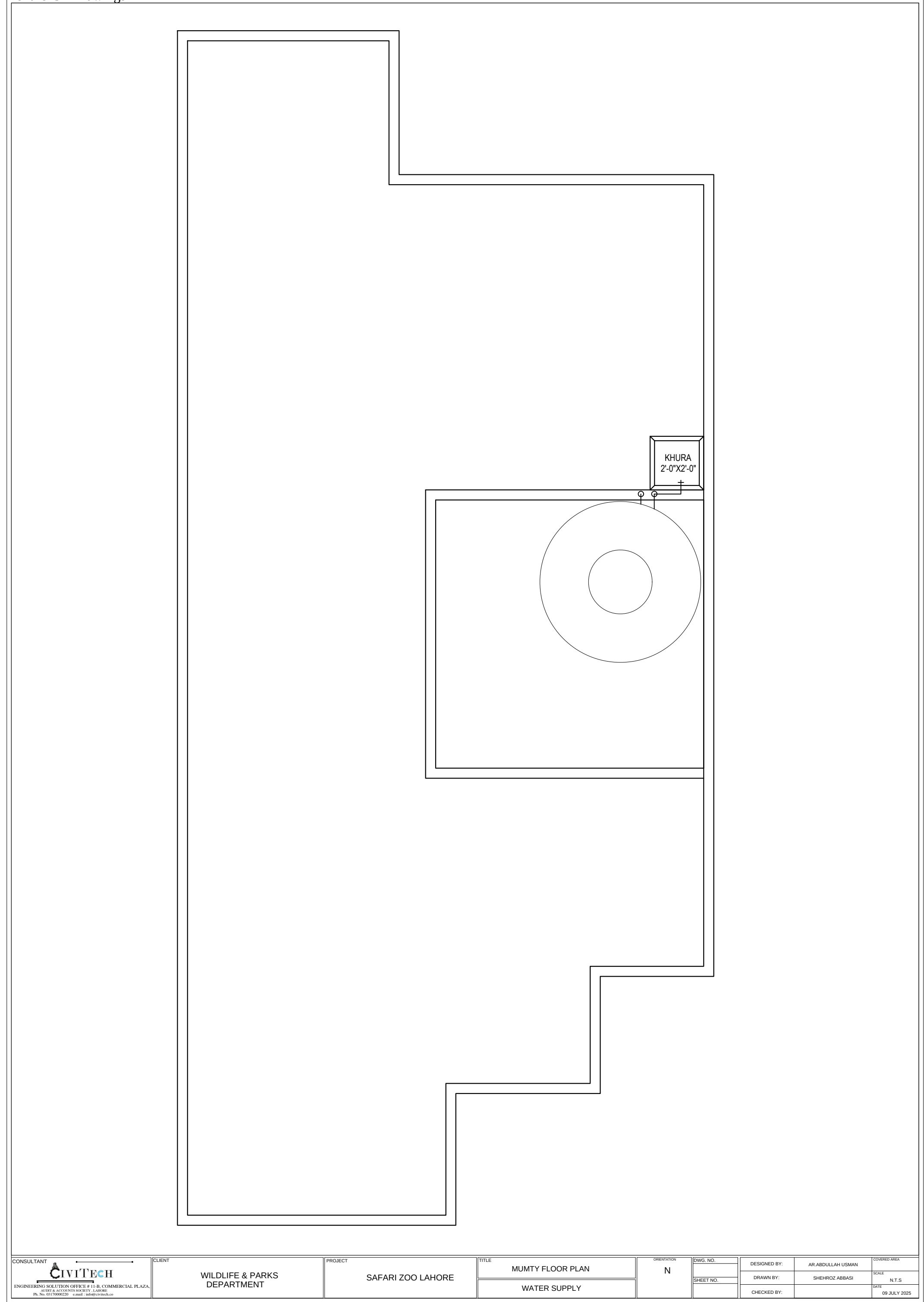
GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S DATE
					WILDLIFE & PARKS DEPARTMENT			SAFARI ZOO LAHORE

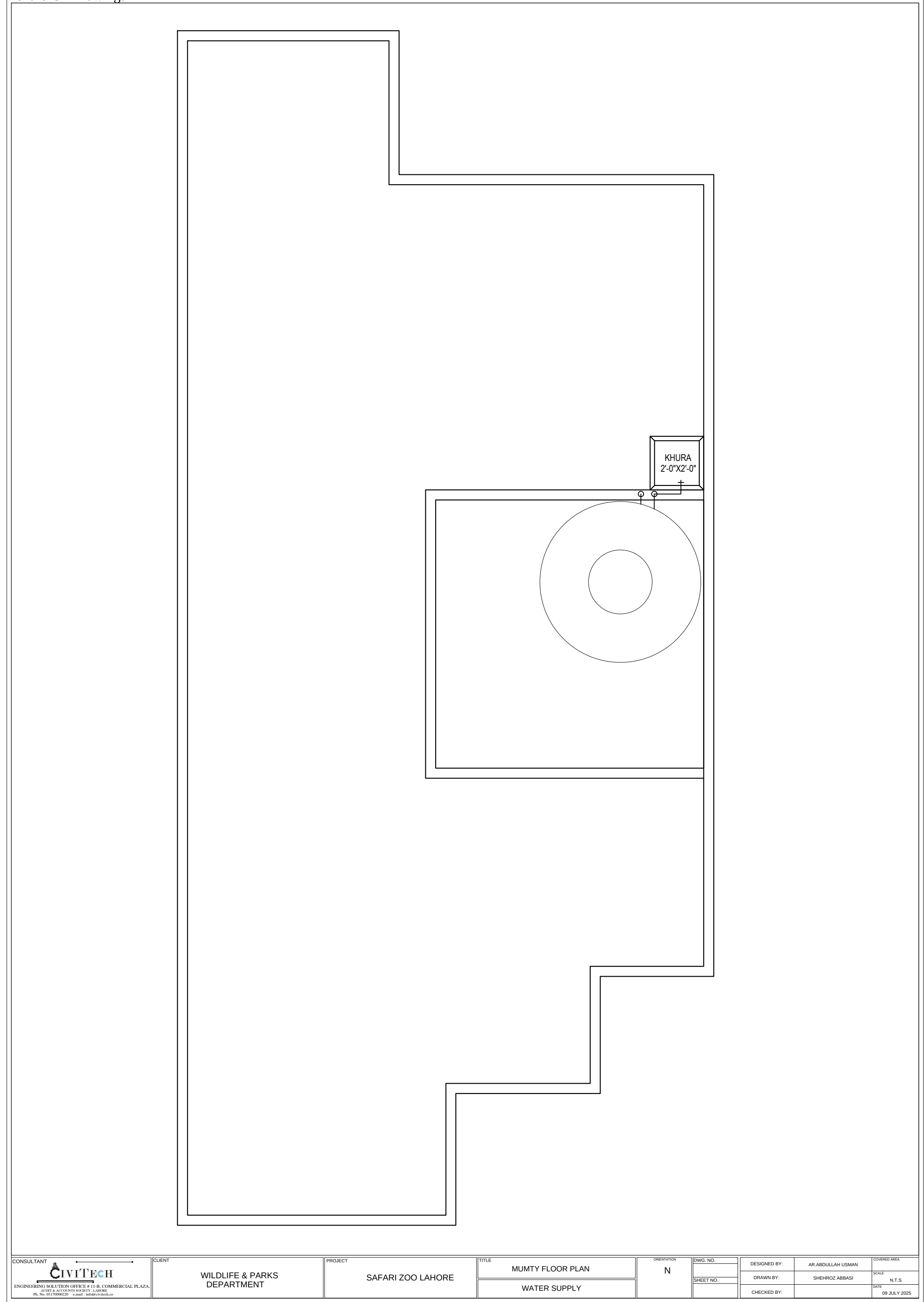


CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, GILDI & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					FIRST FLOOR PLAN						
					WATER SUPPLY			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
	CHECKED BY:		DATE	09 JULY 2025							

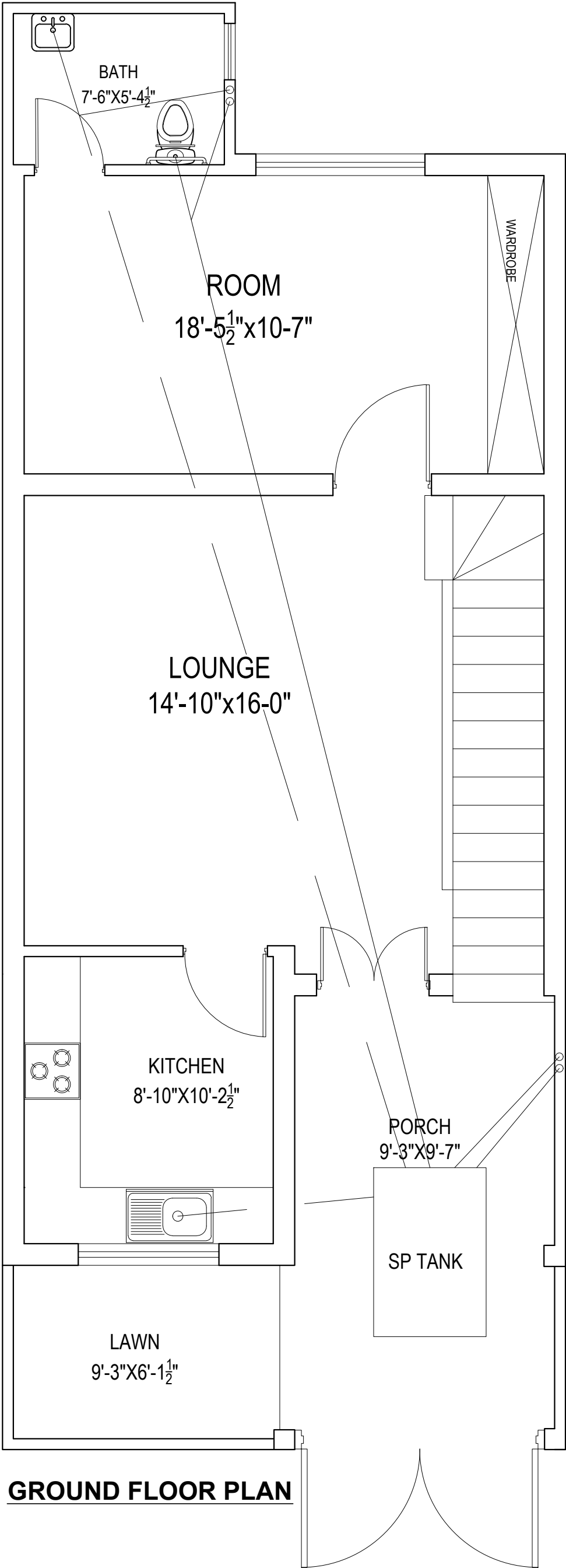




CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN		ORIENTATION N	DWG. NO.	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA
			WATER SUPPLY			SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:		

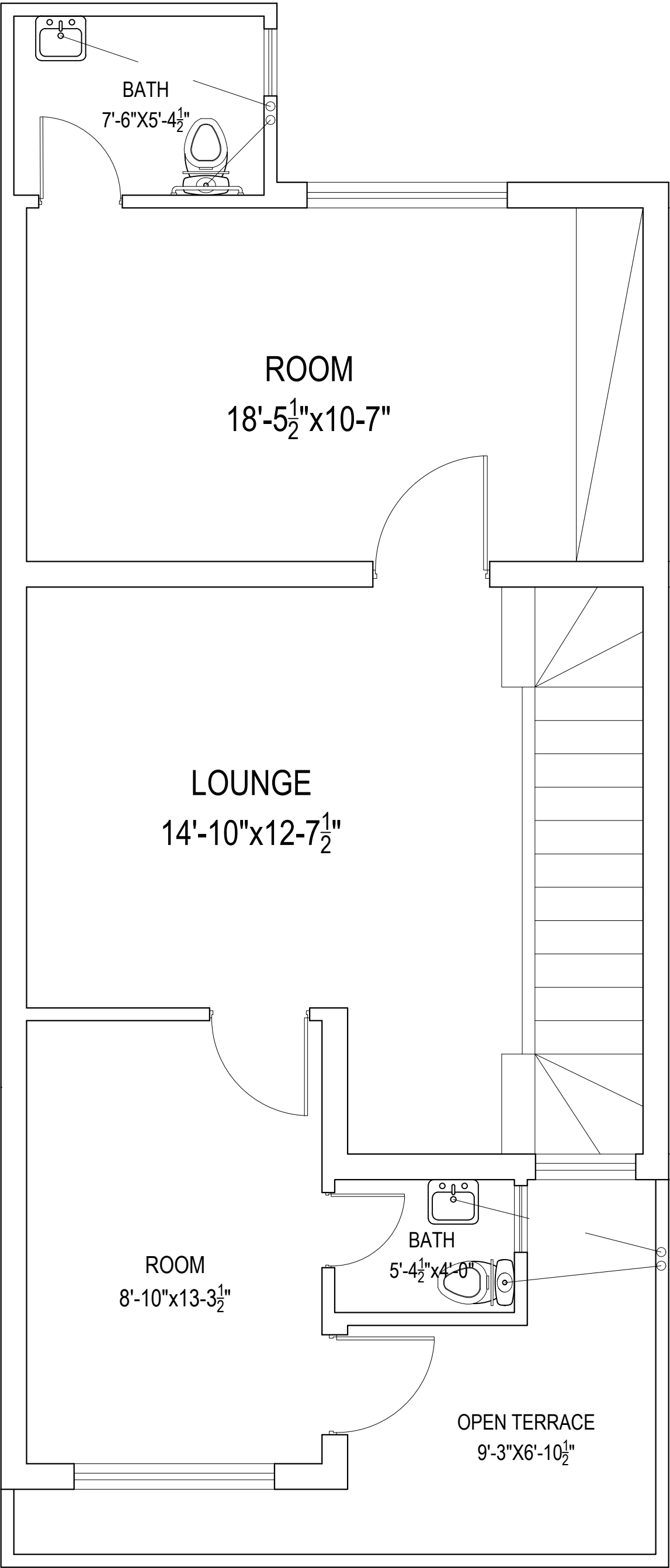


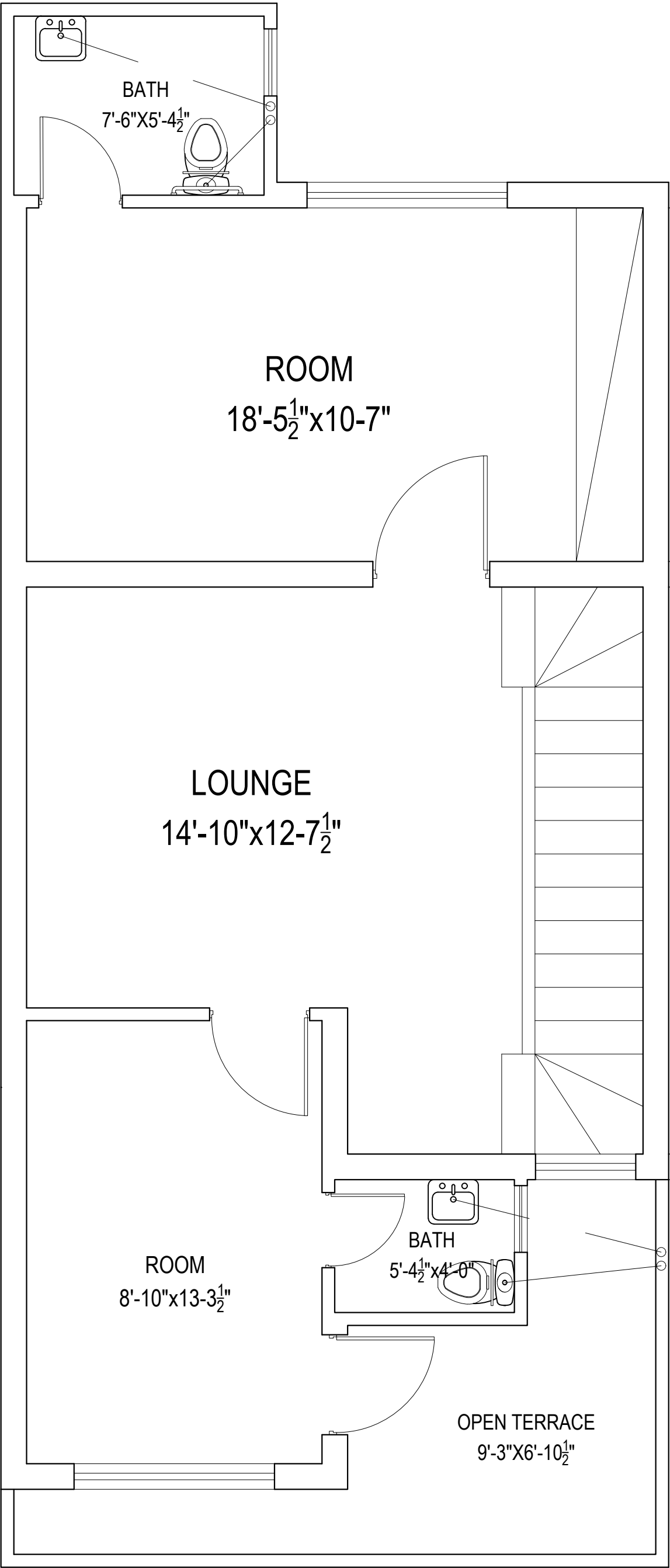
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE		ORIENTATION N	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			MUMTY FLOOR PLAN			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
								CHECKED BY:	

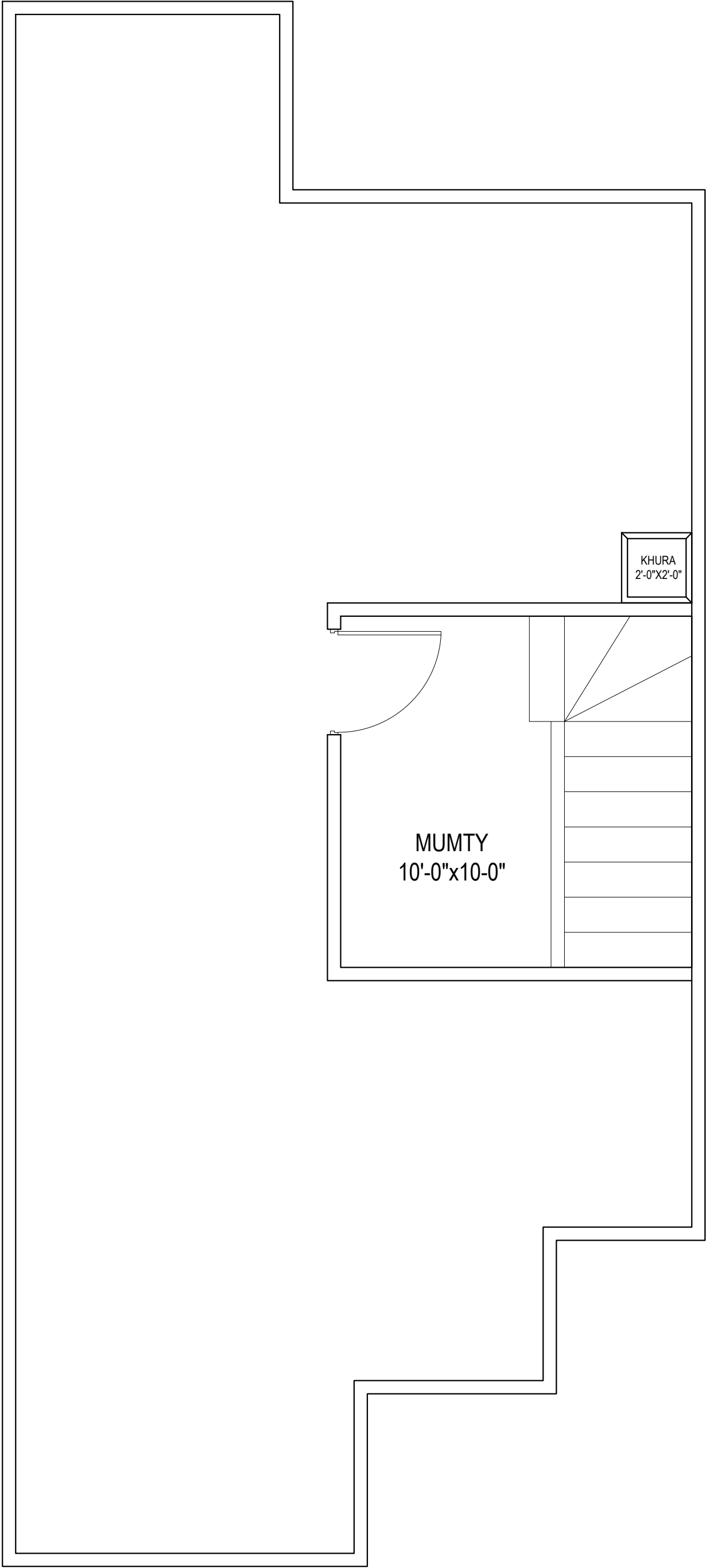


GROUND FLOOR PLAN

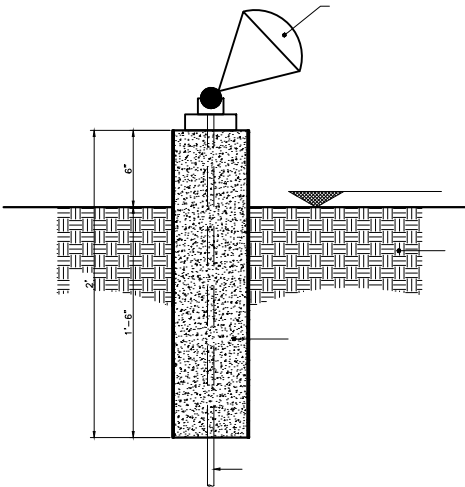
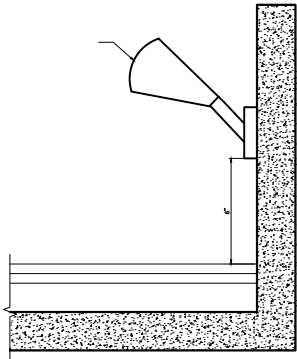
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						CHECKED BY:		N.T.S
								DATE
								09 JULY 2025

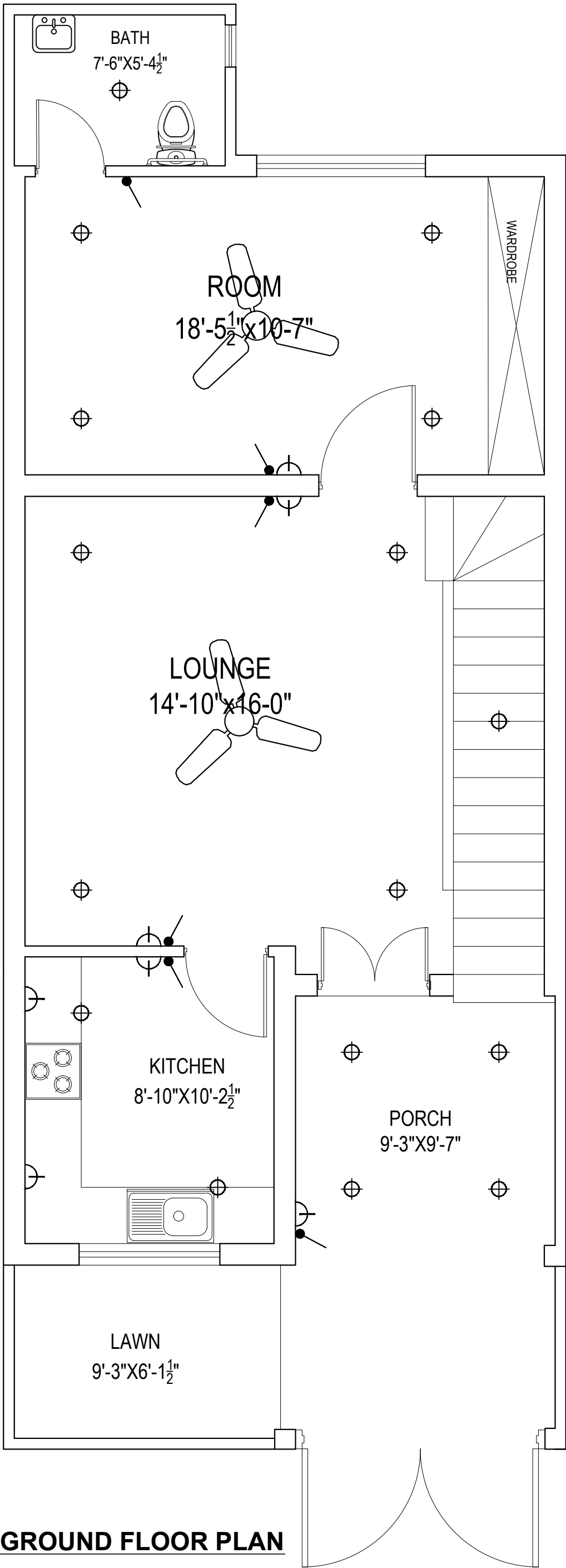






CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
			MUMTY FLOOR PLAN			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE	
			SEWERAGE SUPPLY				CHECKED BY:		N.T.S	
									DATE	
									09 JULY 2025	

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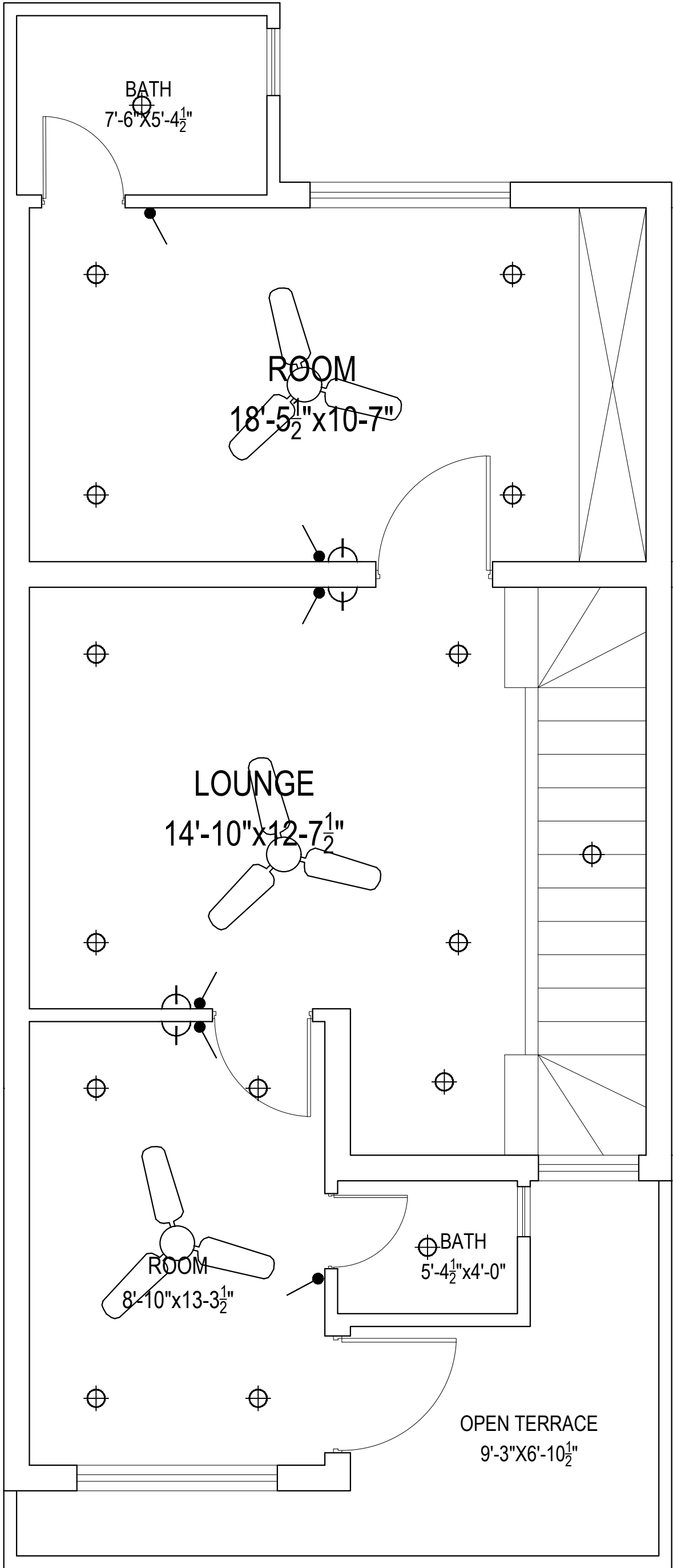


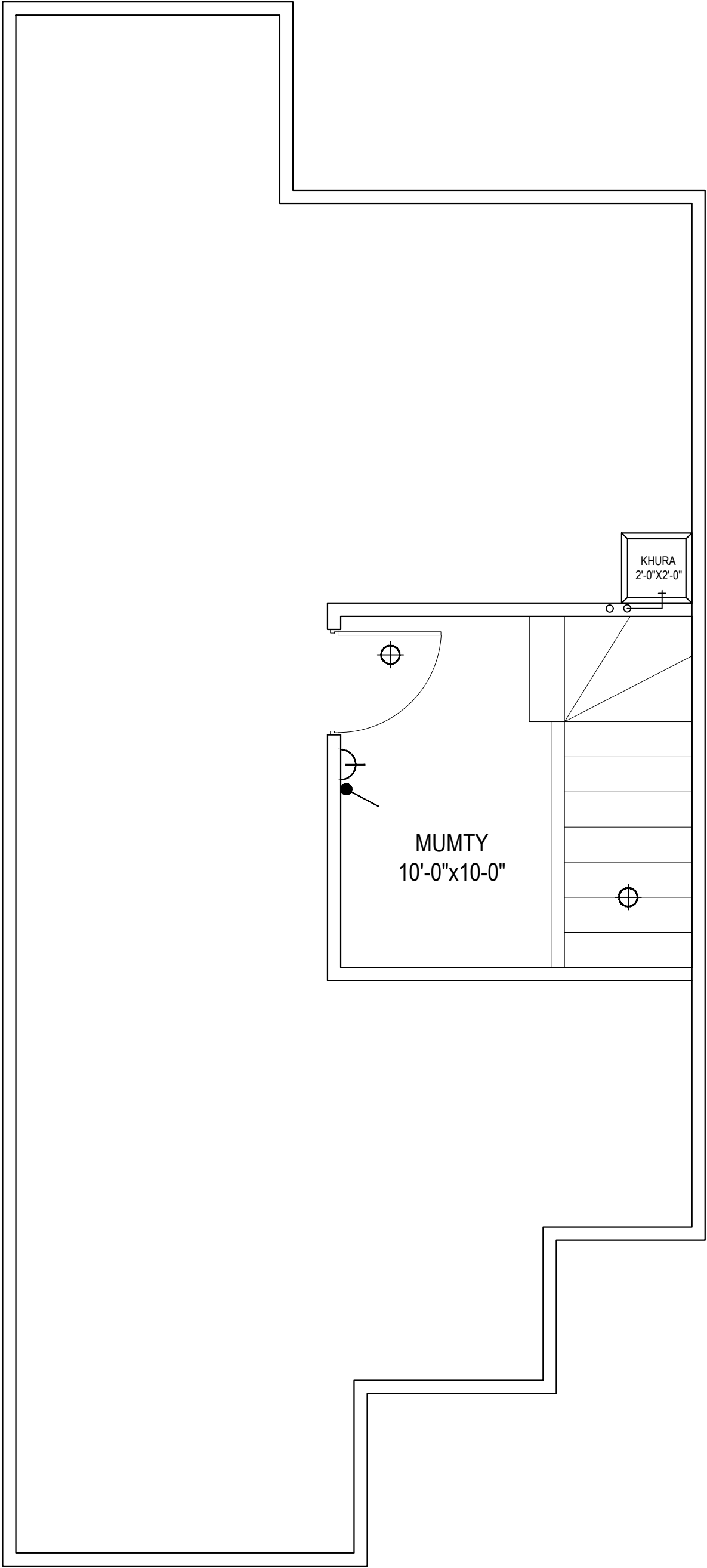
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S DATE 09 JULY 2025

WILDLIFE & PARKS
DEPARTMENT

SAFARI ZOO LAHORE

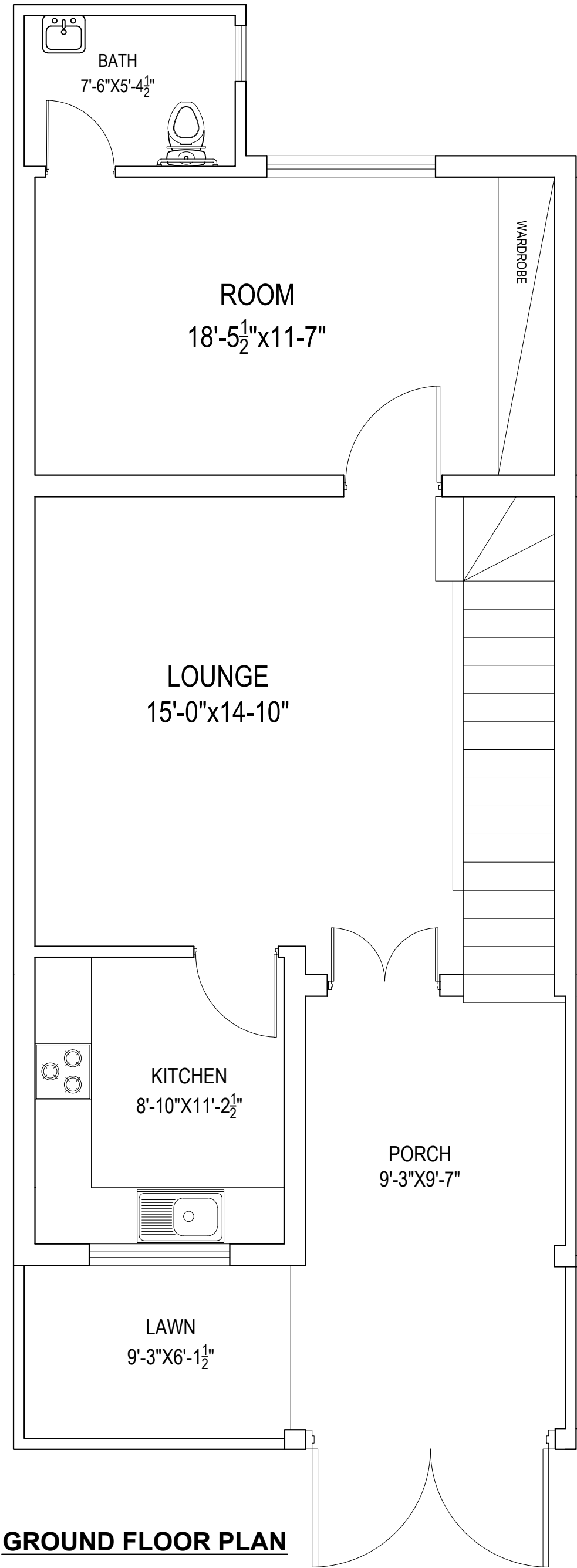
GROUND FLOOR PLAN
ELECTRICAL PLAN

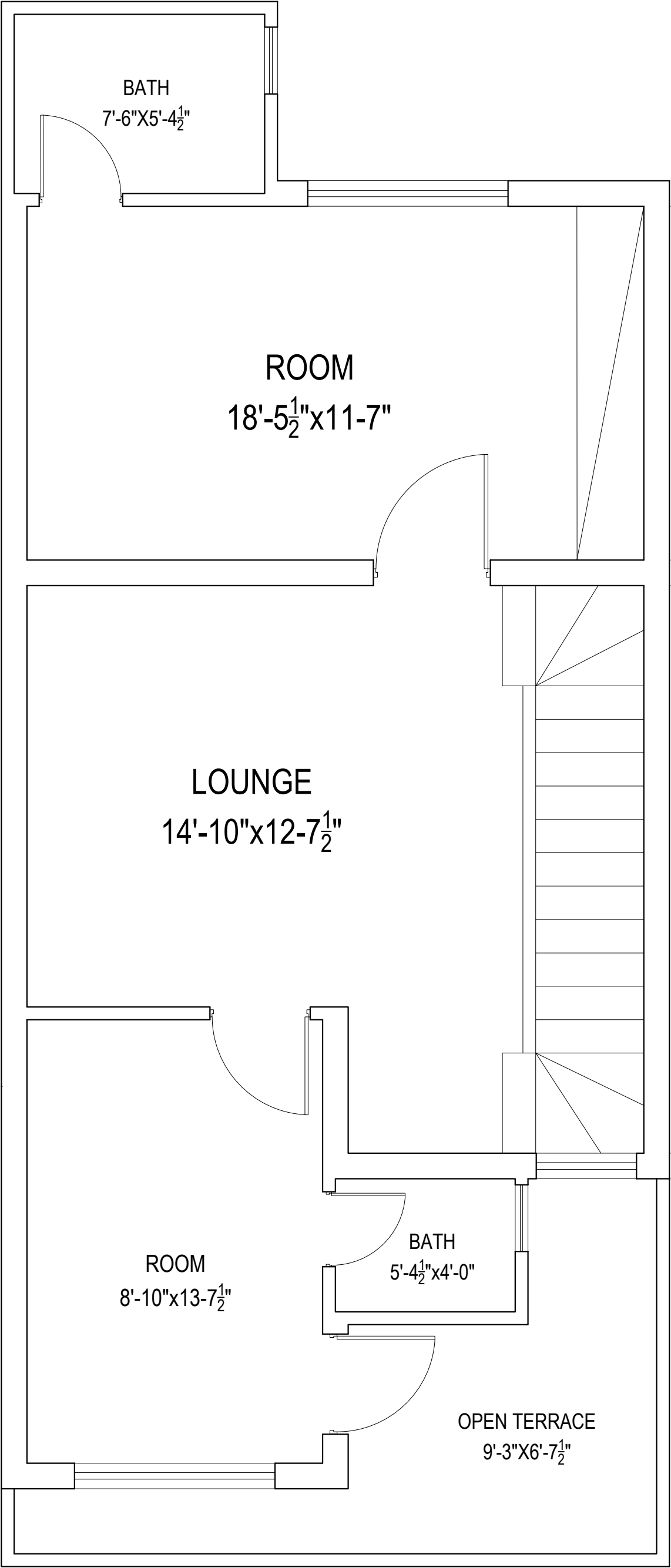




CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE MUMTY FLOOR PLAN ELECTRICAL PLAN	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S DATE 09 JULY 2025

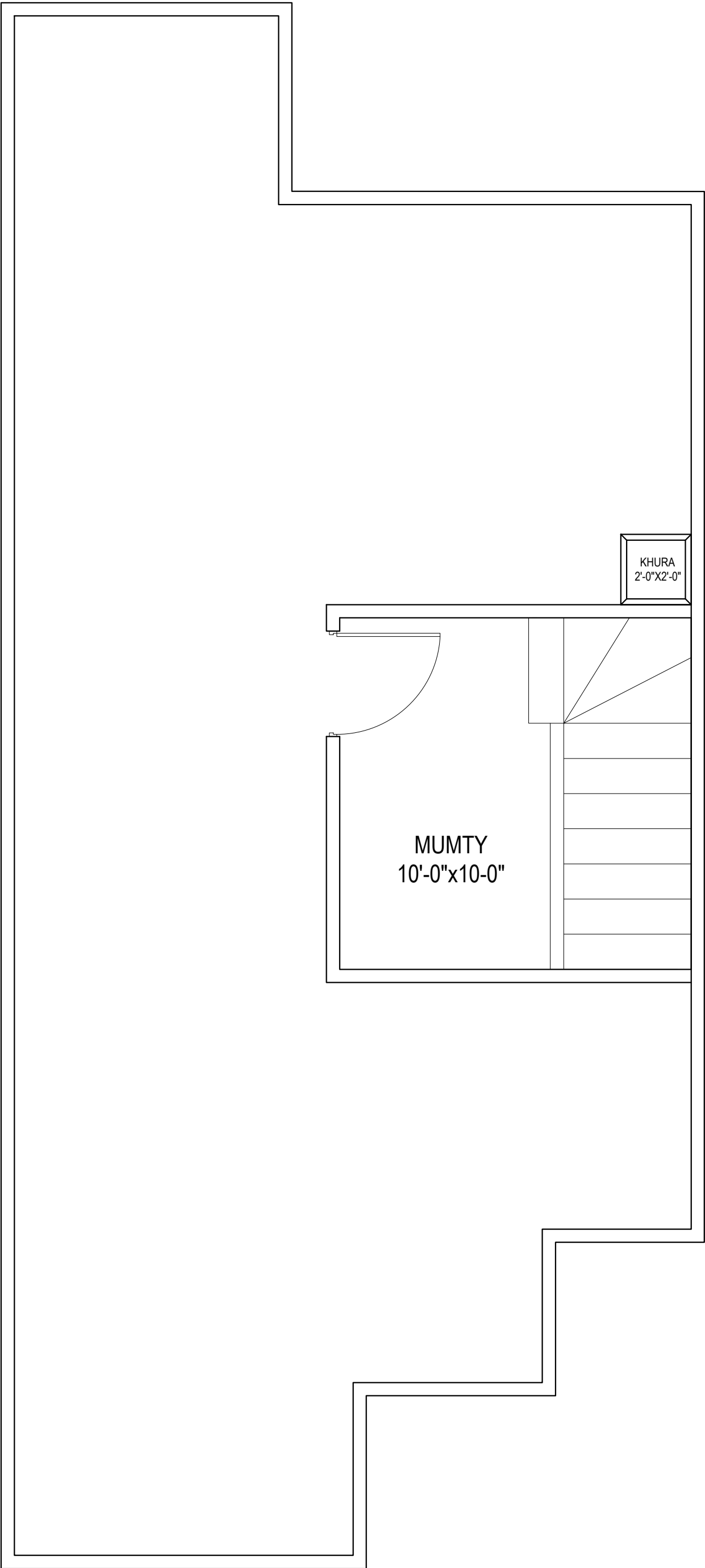
PROPOSED BUILDING FOR
STAFF RESIDENCE(AD OFFICER)
WORKING DRAWINGS JULY, 2025



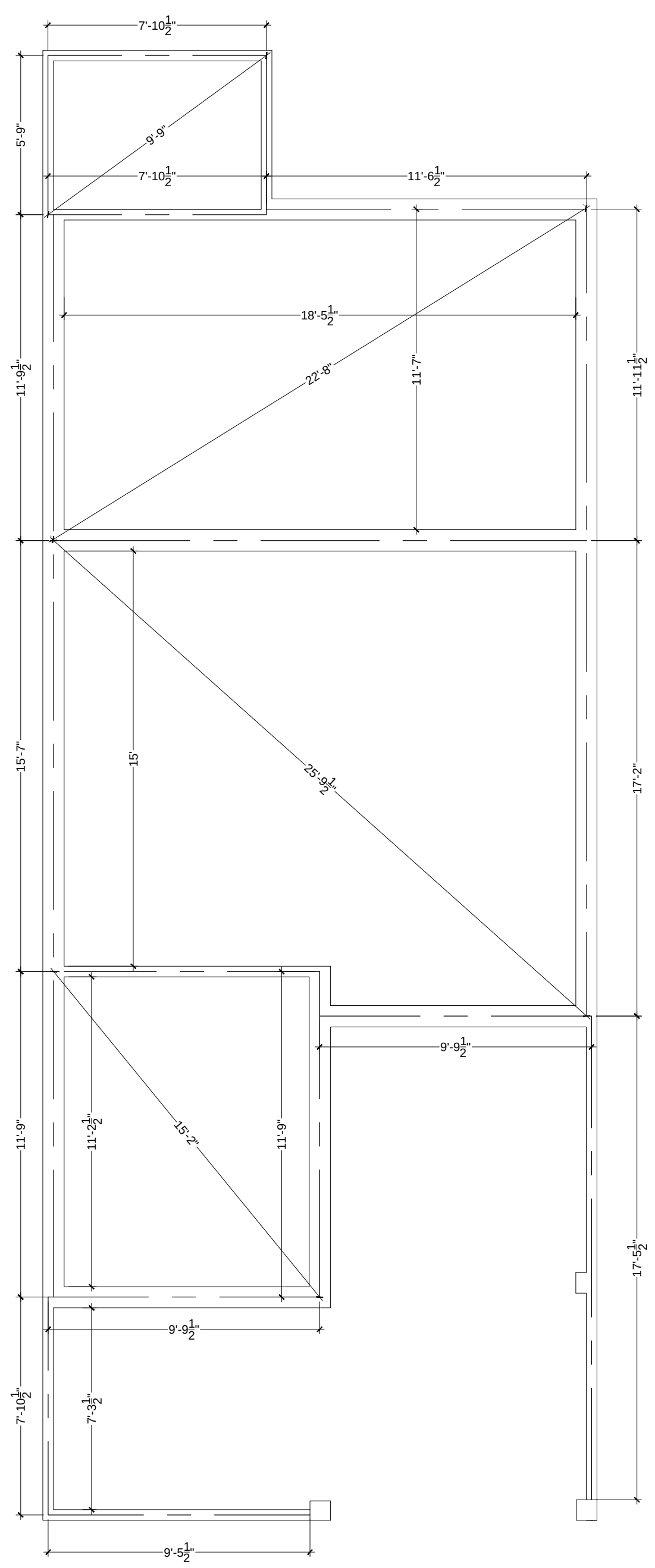


FIRST FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA			
			3D VIEW						409 SFT			
			VIEW 1			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE			
										CHECKED BY:		DATE
												09 JULY 2025
WILDLIFE & PARKS DEPARTMENT		SAFARI ZOO LAHORE										

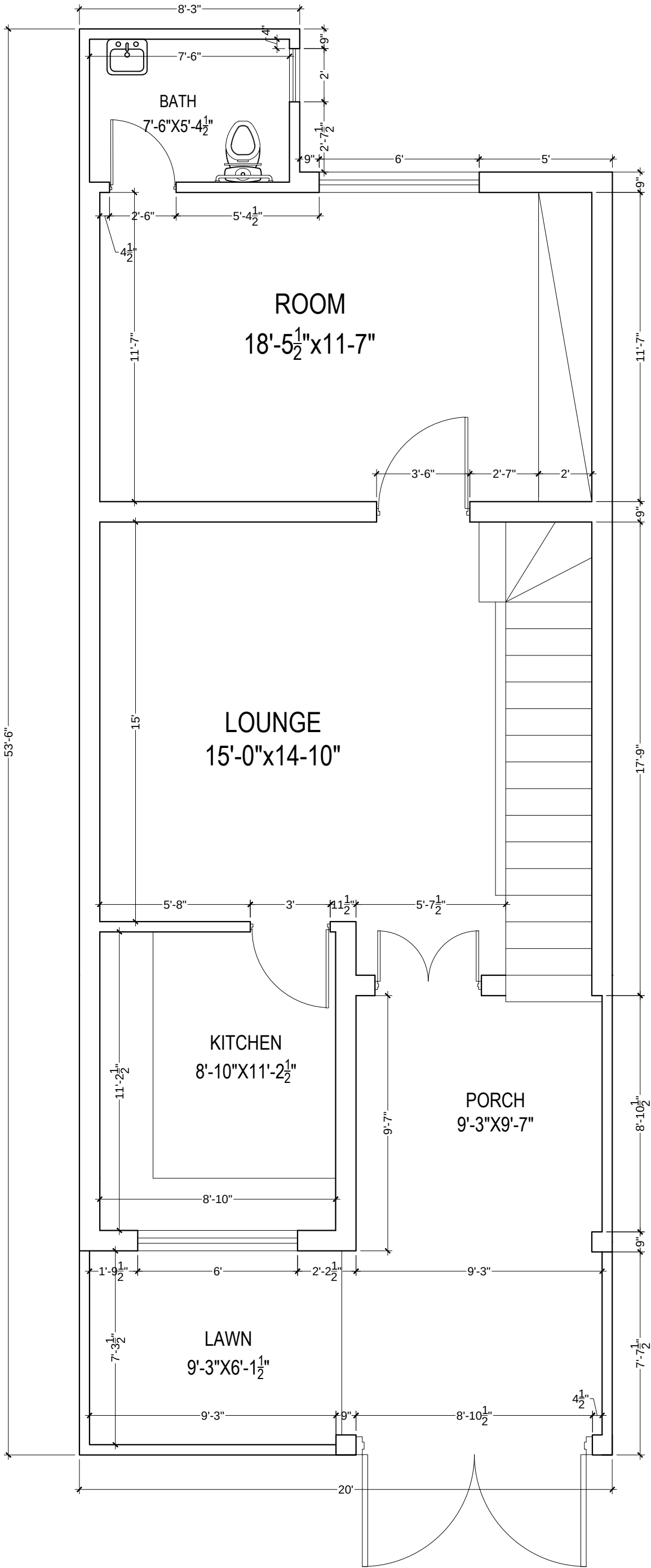


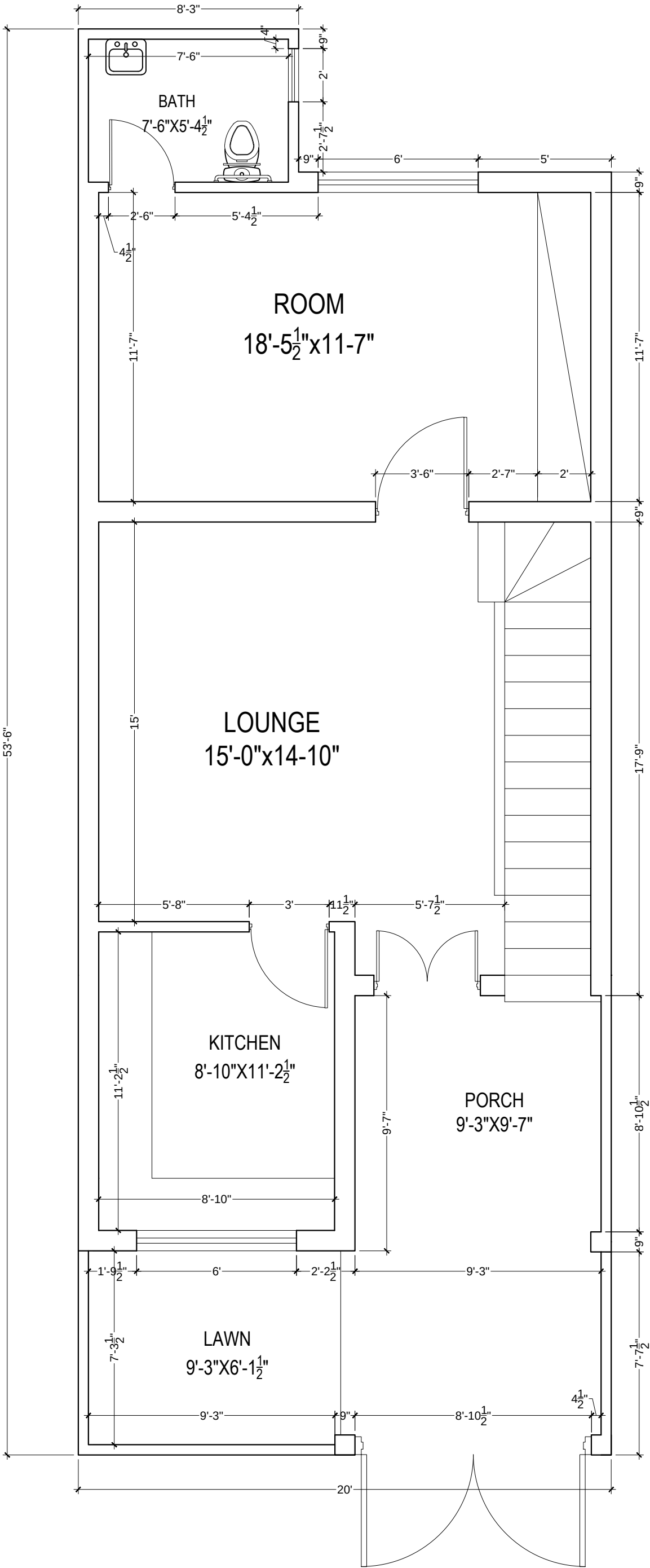
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G/INT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA		
					3D VIEW			DRAWN BY:	SHEHROZ ABBASI	409 SFT		
					VIEW 1			CHECKED BY:		N.T.S		
												09 JULY 2025



GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUSTIN & ACCOUNTS SOCIETY - LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE WORKING PLAN	ORIENTATION	DWG. NO.	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA
			GROUND FLOOR PLAN		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
					CHECKED BY:	DATE 09 JULY 2025	





CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
						DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S
								DATE

WILDLIFE & PARKS
DEPARTMENT

SAFARI ZOO LAHORE

WORKING PLAN

FIRST FLOOR PLAN

DESIGNED BY:

AR.ABDULLAH USMAN

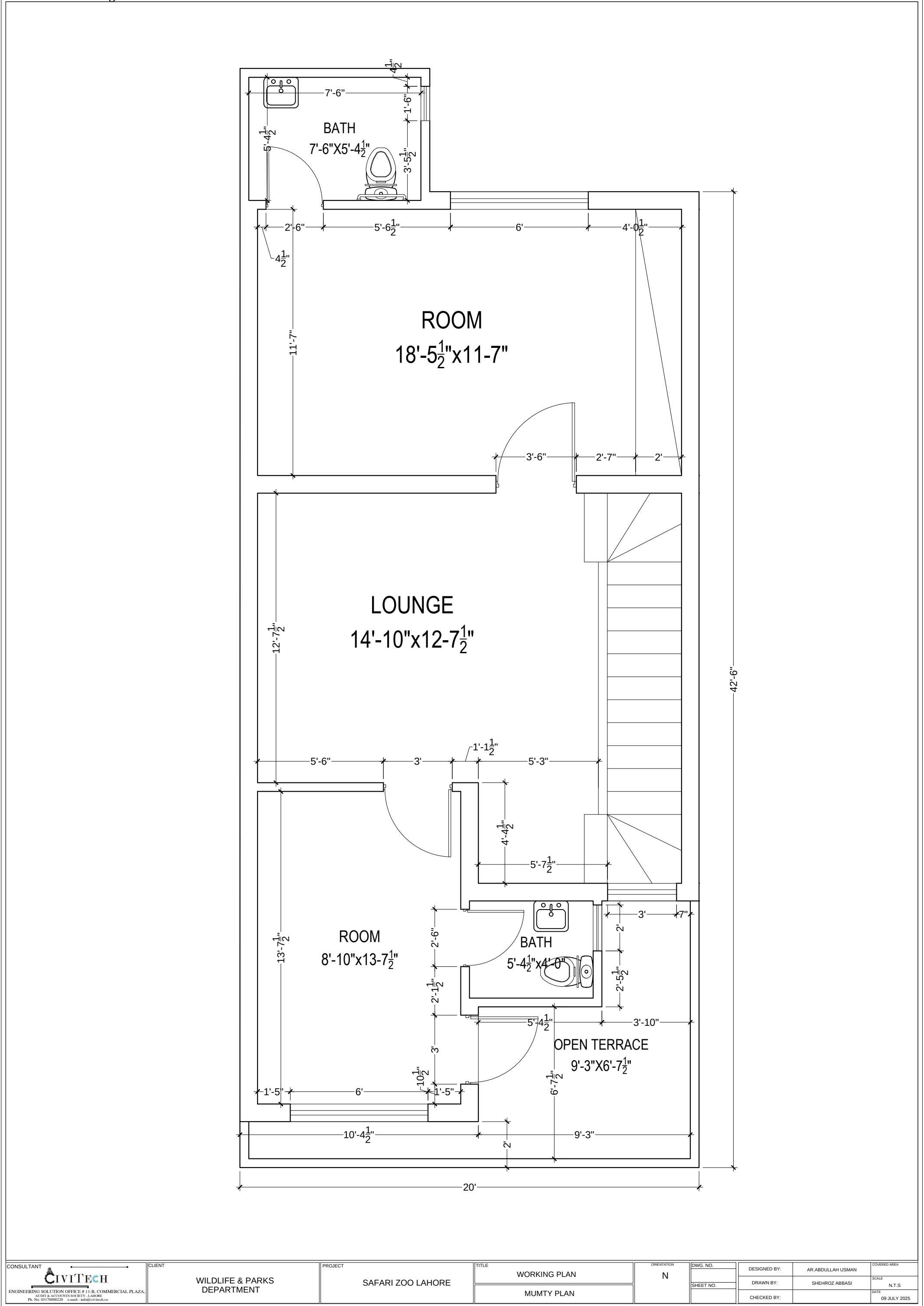
DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

DATE

09 JULY 2025



CONSULTANT		CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	WORKING PLAN	ORIENTATION	N	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA

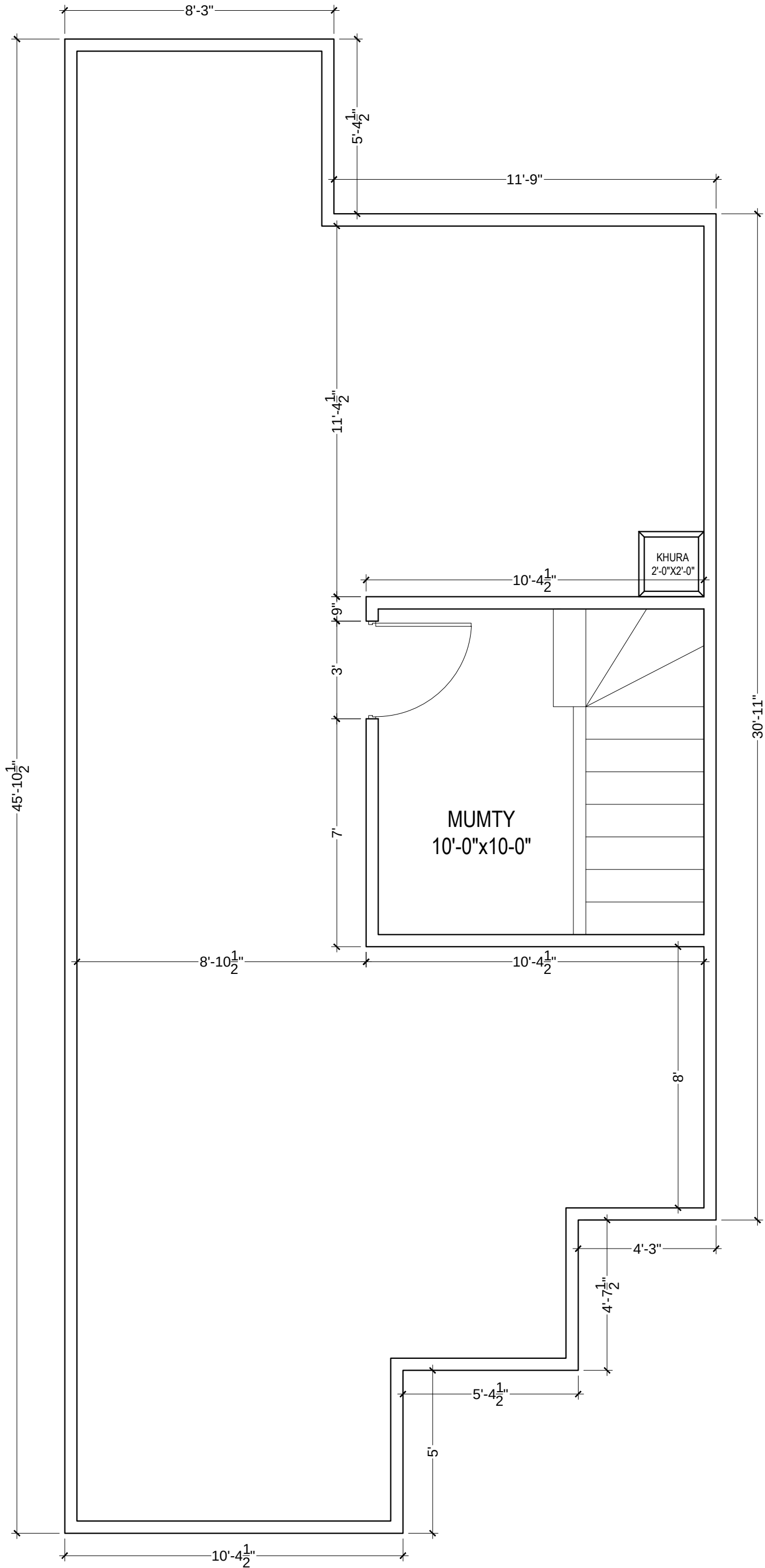
ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
ALFAT & ACCOUNTS SOCIETY LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

TITLE	WORKING PLAN	ORIENTATION	N	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA

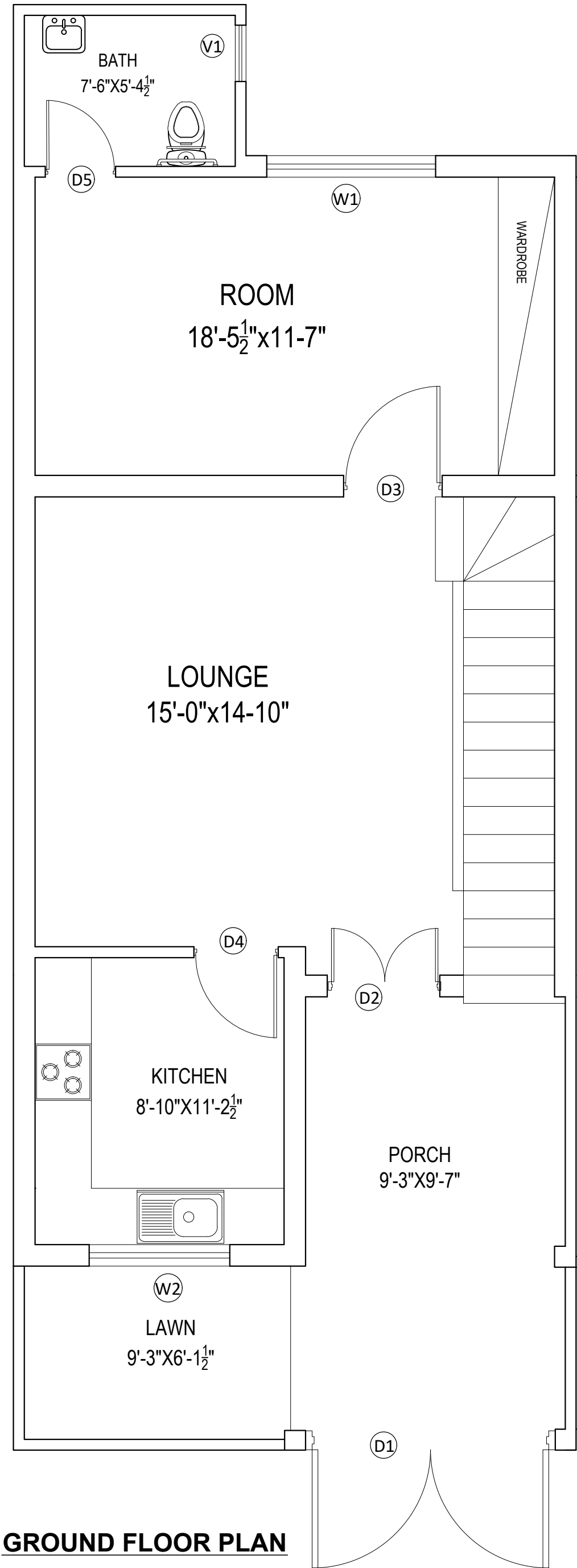
MUMTY PLAN

SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE	N.T.S

CHECKED BY: 09 JULY 2025

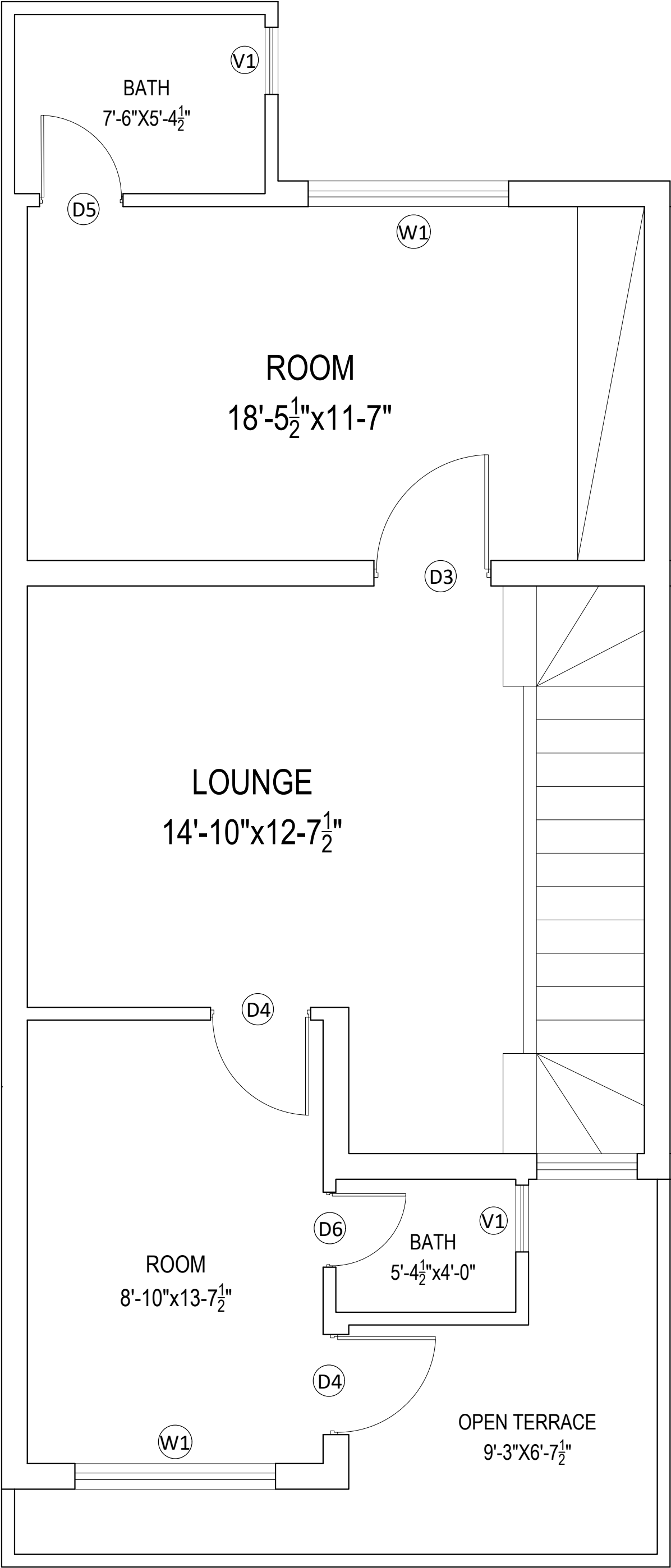


DOOR WINDOW SCHEDULE				
TYPE	WIDE	HIGH	SILL	DESCRIPTION
D1	8'-10.5"	8'-0"	0'-0"	MS STEEL DOOR
D2	4'-0"	7'-0"	0'-0"	MS STEEL DOOR
D3	3'-6"	7'-0"	0'-0"	MS STEEL DOOR
D4	3'-0"	7'-0"	0'-0"	MS STEEL DOOR
D5	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
D6	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
W1	6'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	5'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	3'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
V1	2'-0"	2'-0"	5'-0"	ALUMINUM GLASS WINDOW

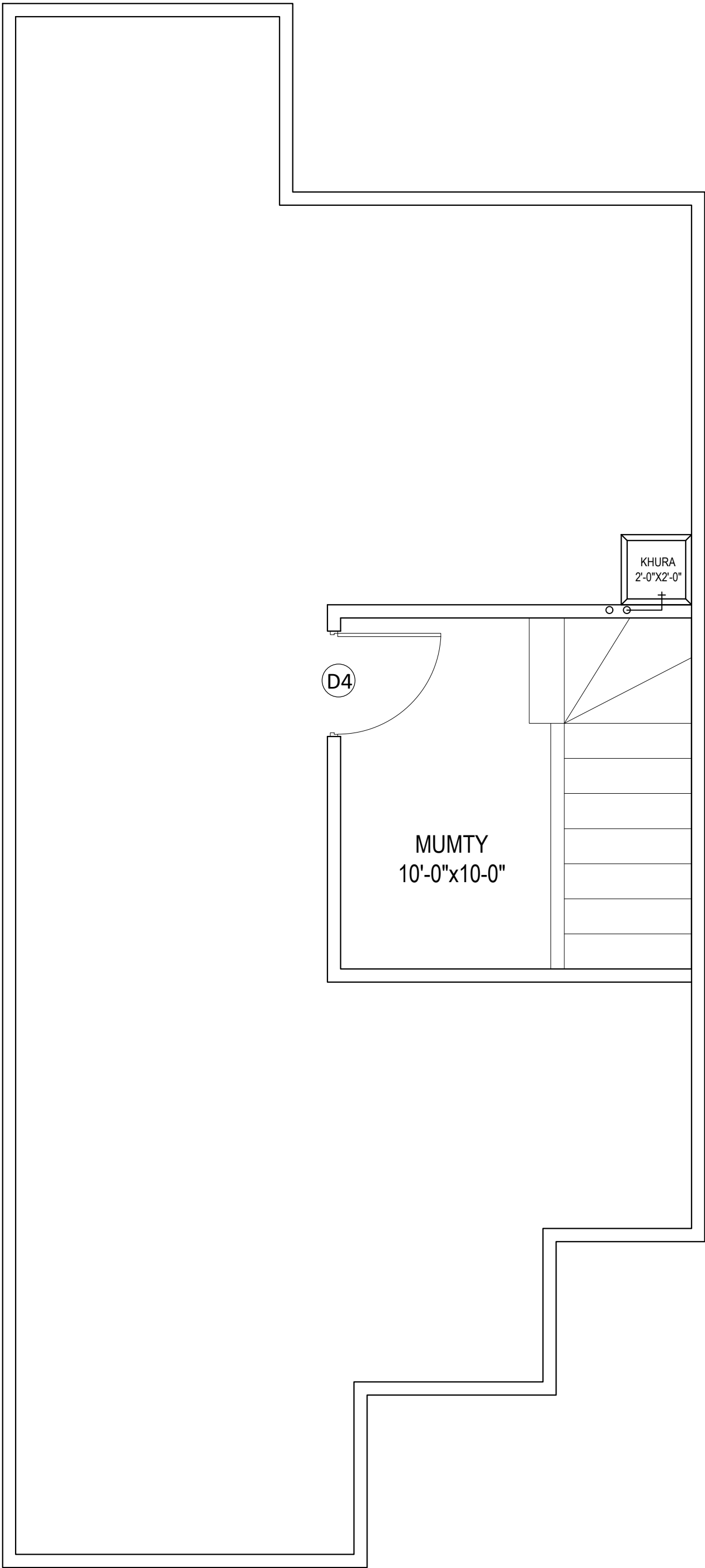


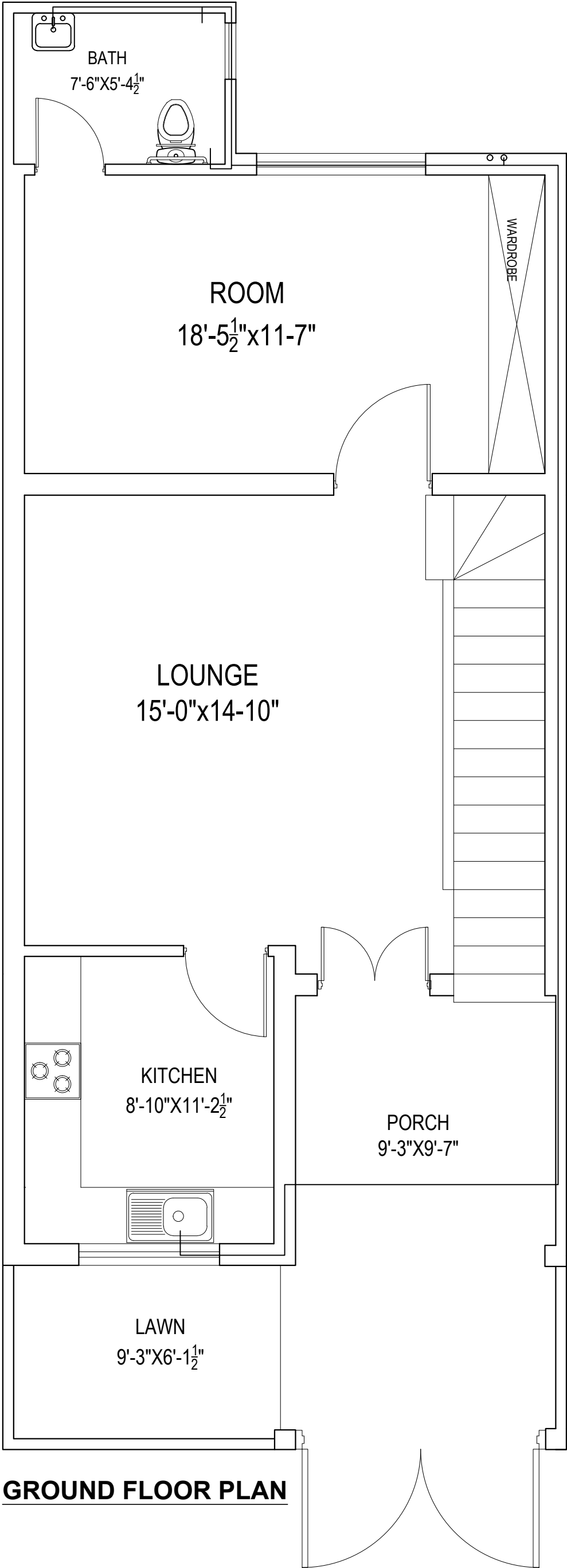
GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S
								DATE
								09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-1/ST & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
							SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
										N.T.S
					DOOR WINDOW SCHEDULE			CHECKED BY:		DATE
										09 JULY 2025





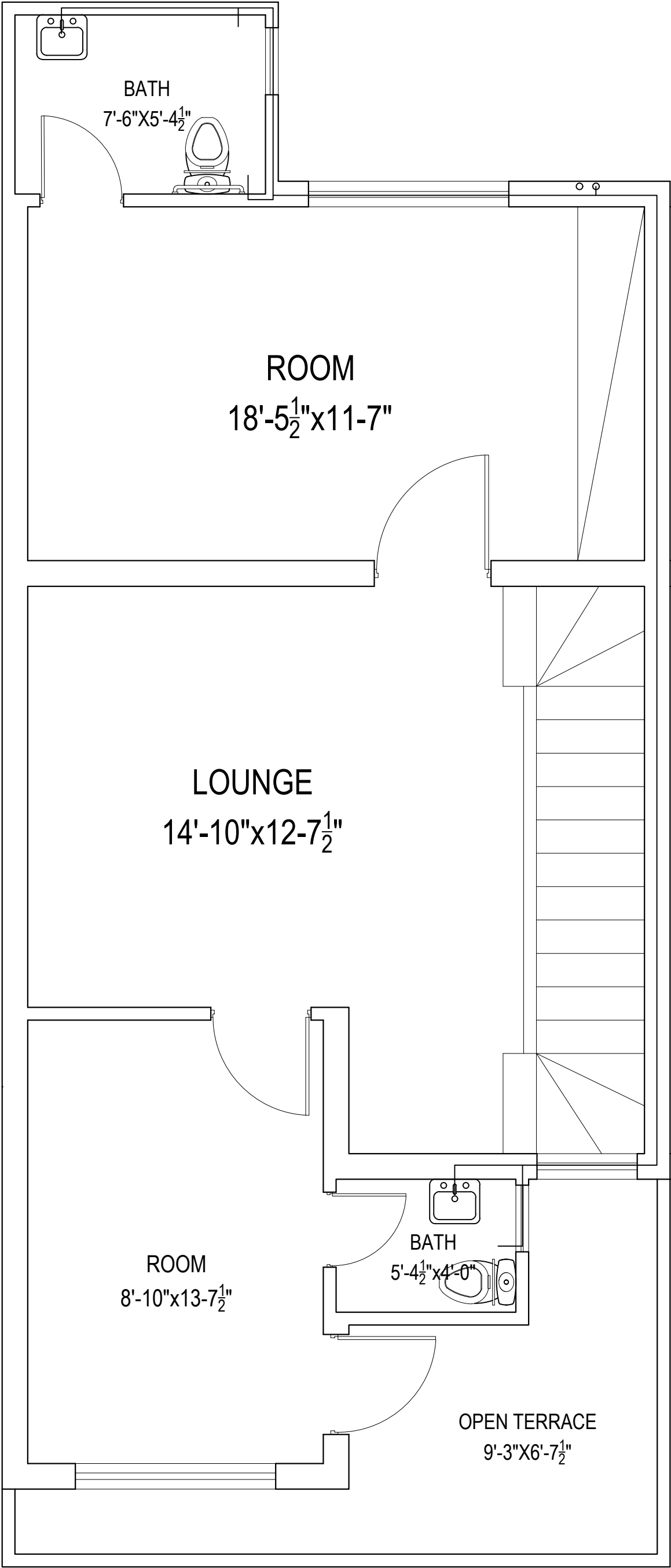
GROUND FLOOR PLAN

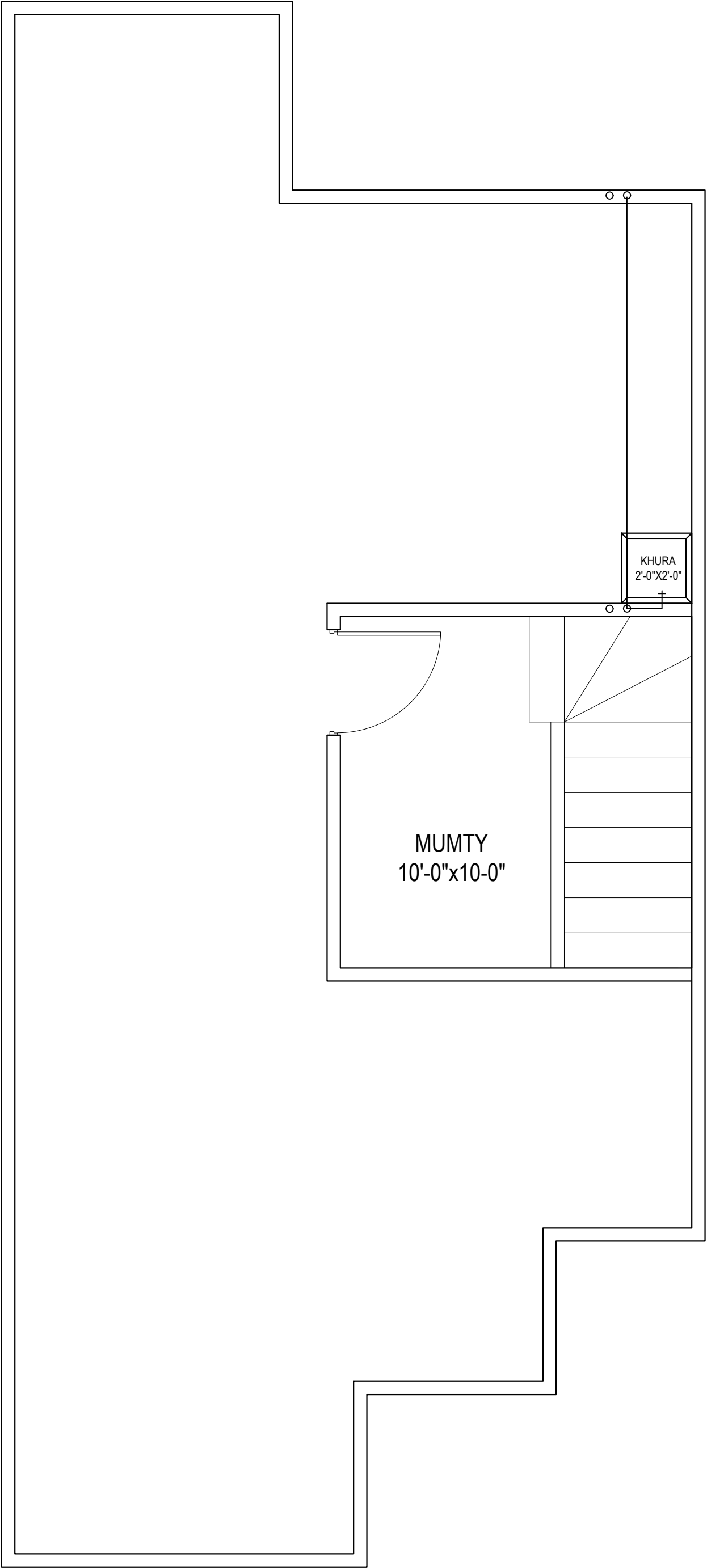
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, ARTIST & ACCOUNTANTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S DATE 09 JULY 2025

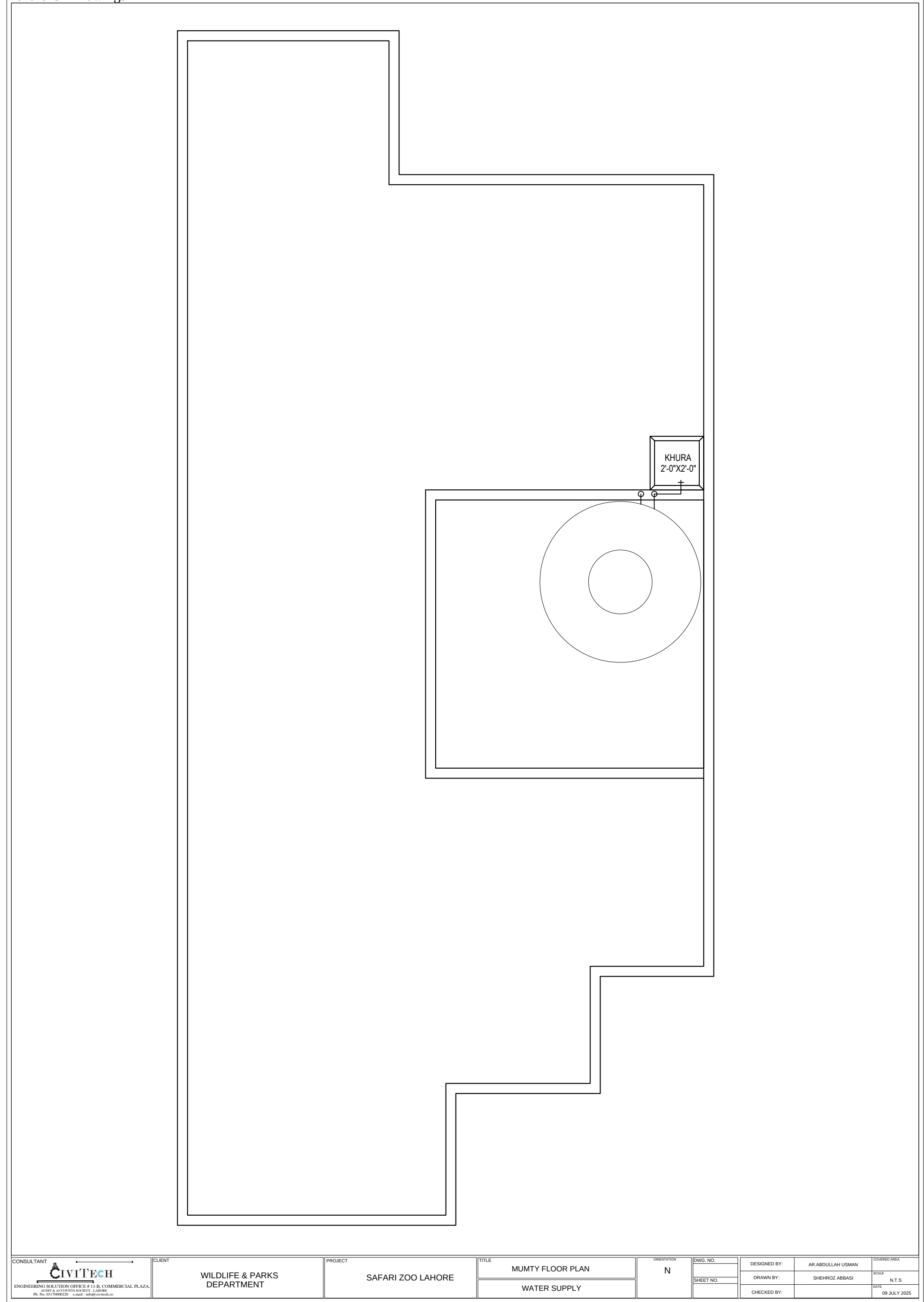
WILDLIFE & PARKS
DEPARTMENT

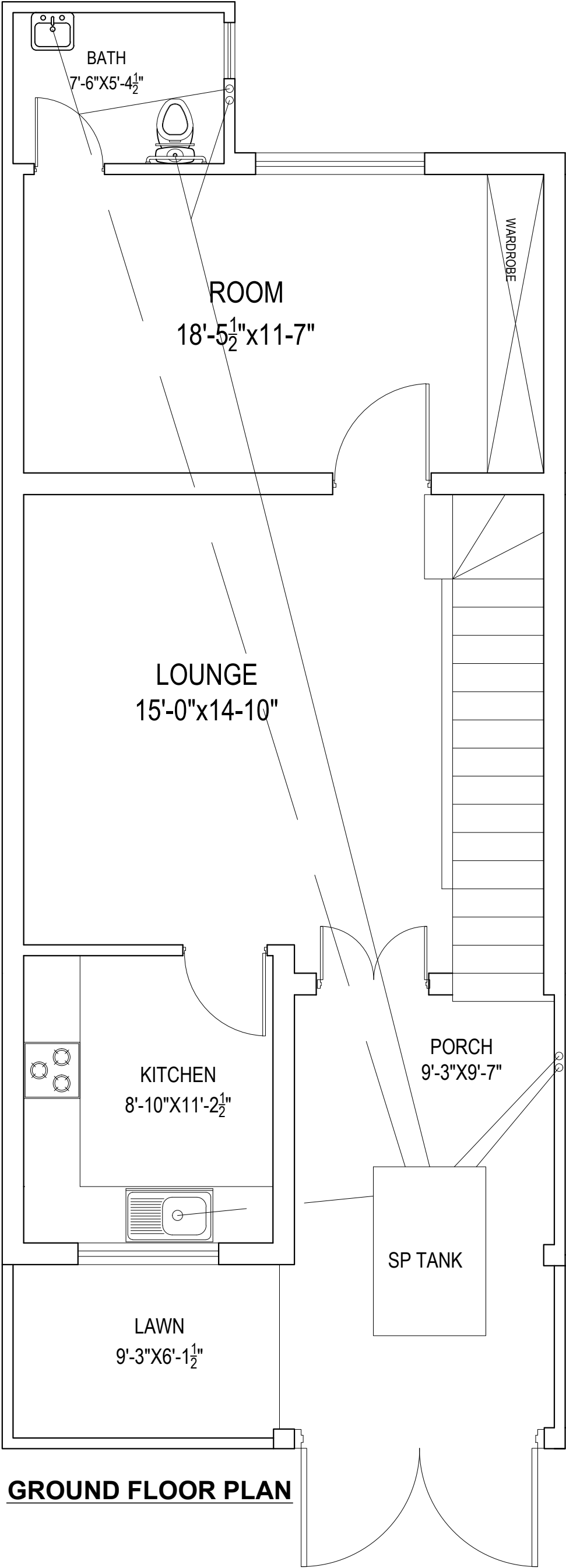
SAFARI ZOO LAHORE

GROUND FLOOR PLAN
WATER SUPPLY

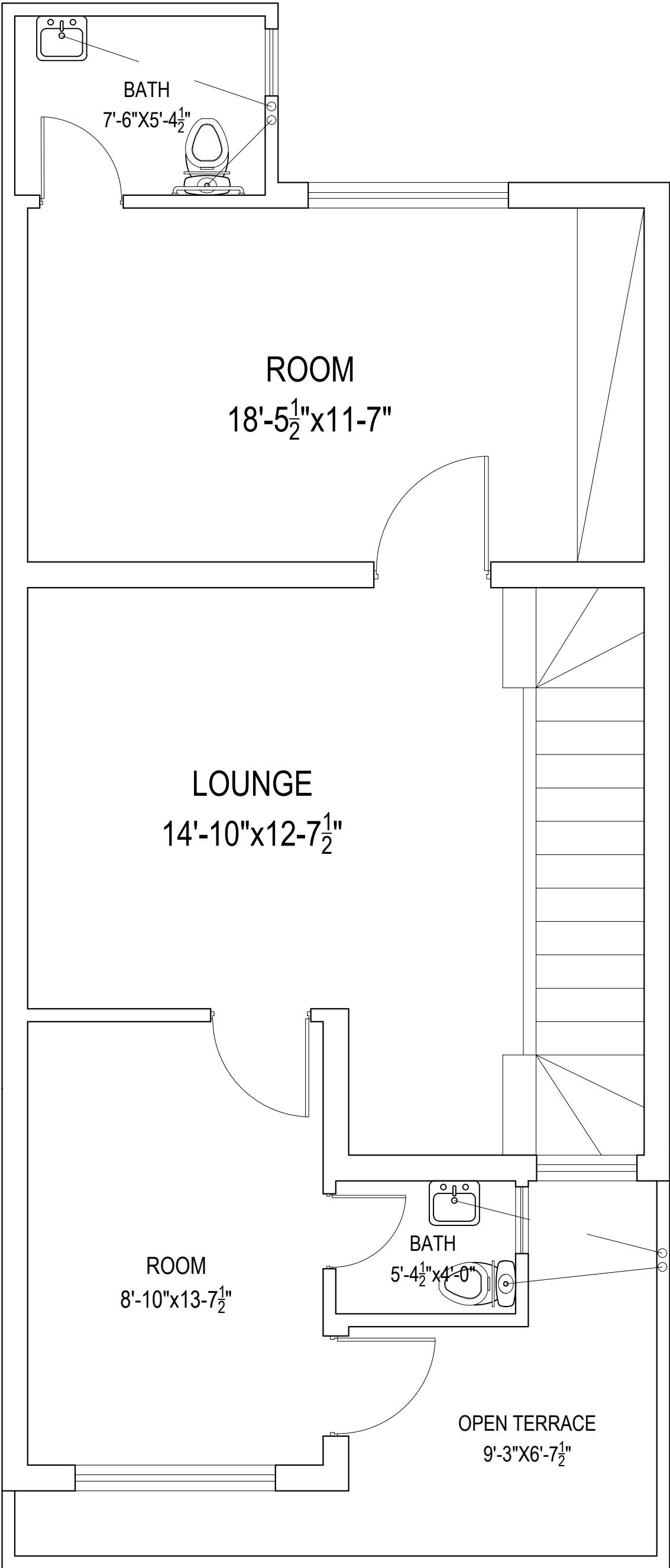


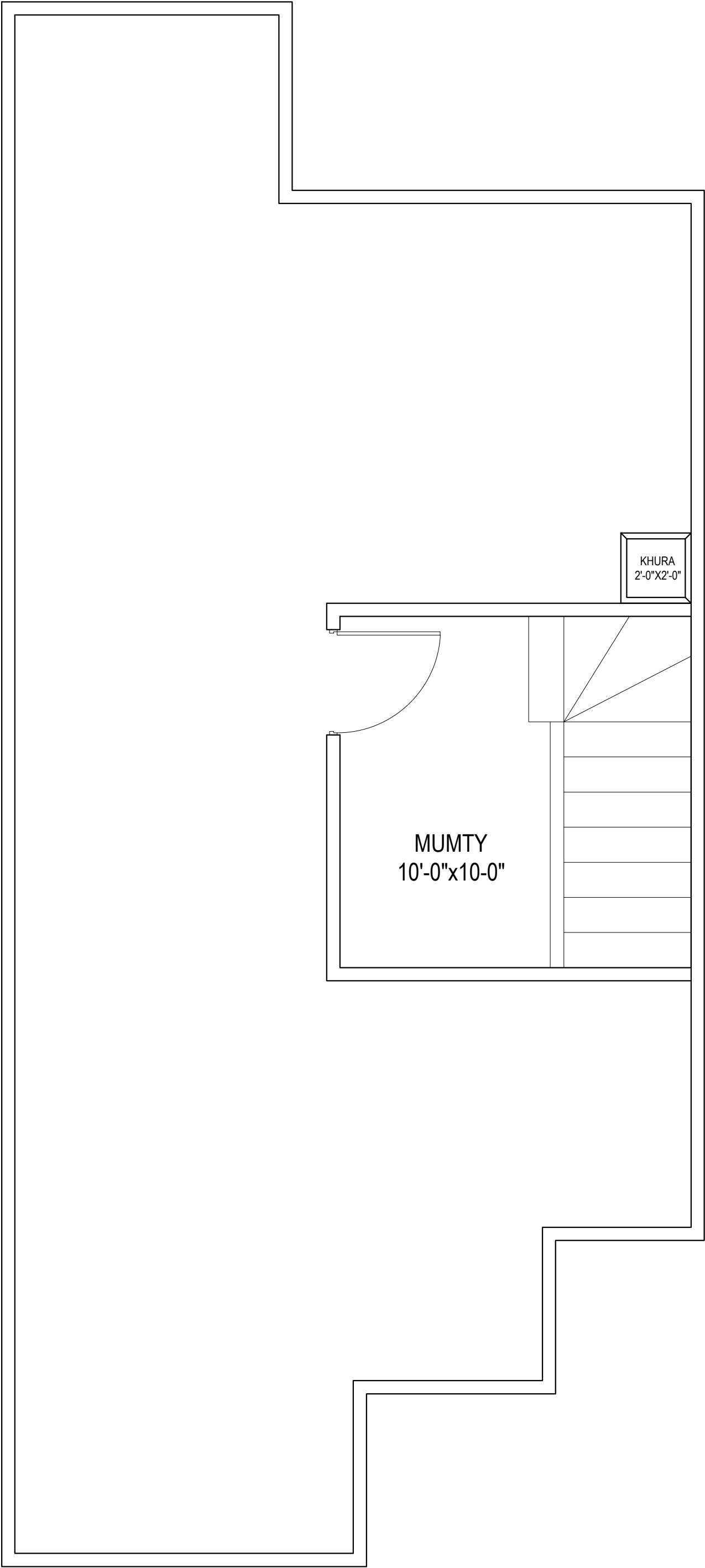




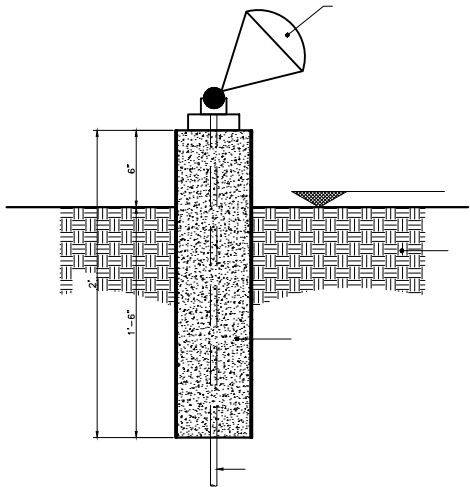
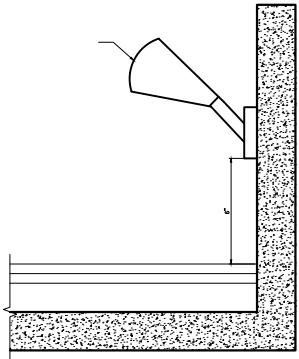


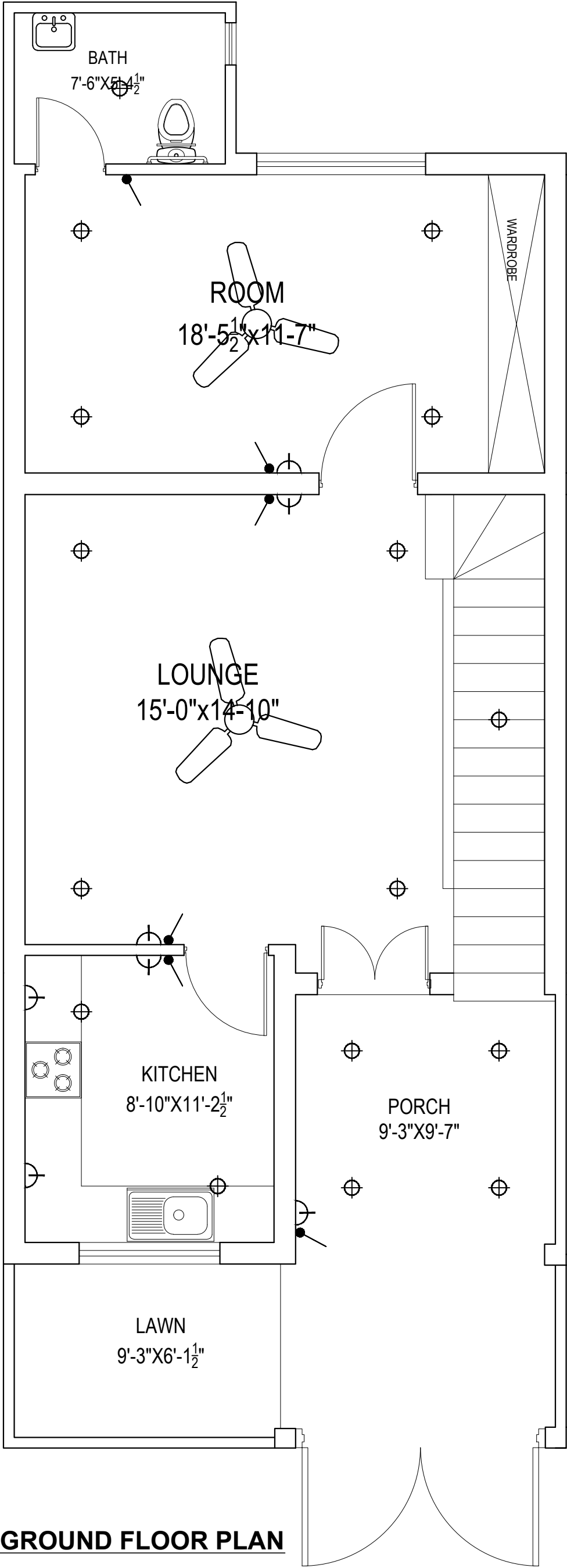
GROUND FLOOR PLAN





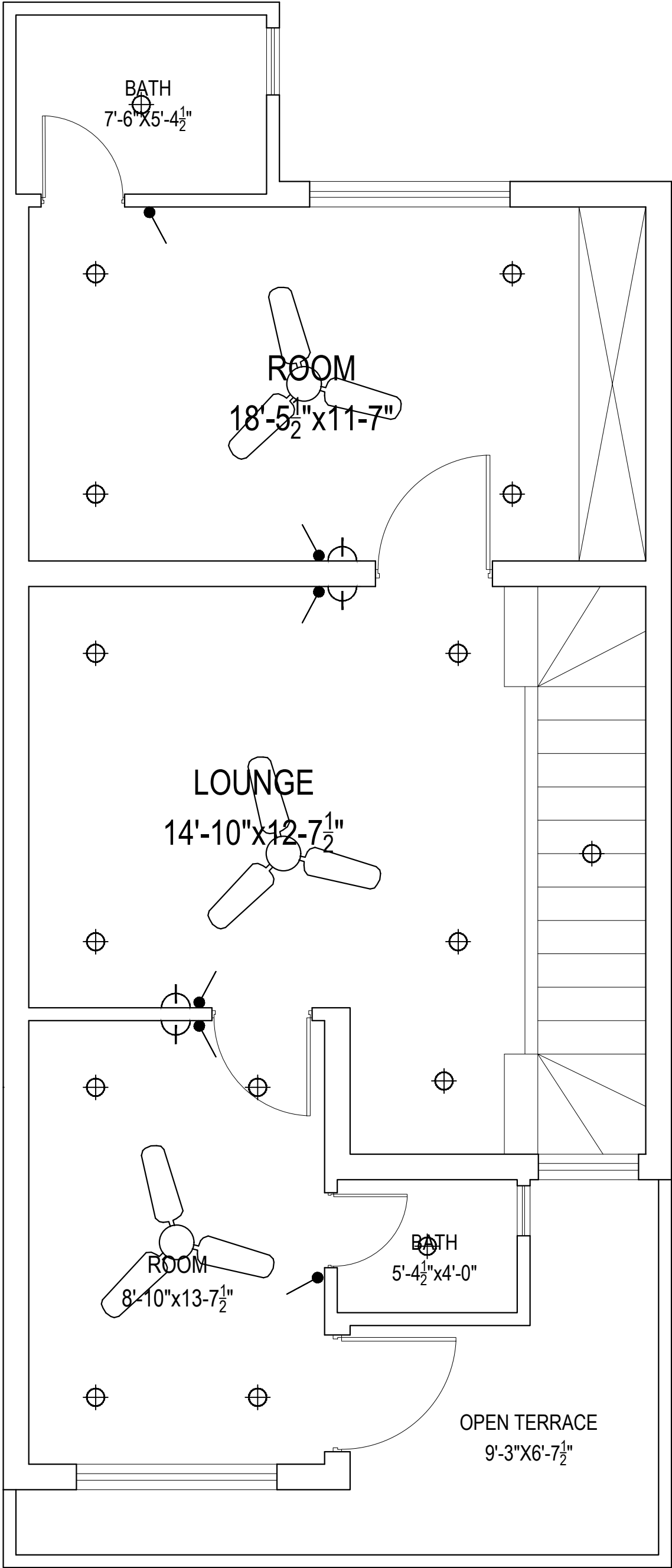
LEGEND FOR ELECTRICAL		
SYMBOL	DESCRIPTION	MOUNTING HT.
	5 Amp: SINGLE POLE FLUSH TYPE SWITCH BOARD	3'-6"
	5 Amp: 2 WAY FLUSH TYPE SWITCH POINT	3'-6"
	CEILING LIGHT POINT	
	WALL BRACKET LIGHT POINT	7'-6"
	EXTERNAL WALL BRACKET WATER PROOF LIGHT	7'-6"
	HANGING CORNER LIGHT POINT	
	WATER PROOF PLANT LIGHT POINT	1'-0"
	GARDEN LIGHT POINT	3'-6"
	MOTION DETECTOR LIGHT	3'-6"
	FACADE LIGHT	0'-6"
	SHANDLEAR POINT	
	TUBE LIGHT UNDER KITCHEN WALL CABINET	
	MAIN GATE LIGHT POINT	
	TRACK LIGHT	7'-6"
	CCTV CAMERA WITH 5 AMP: LIGHT PLUG	8'-6"
	T.V CABLE POINT	0'-9"
	CCTV CAMERA CONTROL POINT	0'-9"
	TELEPHONE / INTERCOM PLUG POINT	0'-9"
	NETWORKING POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	3'-6"
	3-PIN 15Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR U.G.W.T MOTOR PUMP	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR WATER COLLECTION CHAMBER SUBMERSIBLE PUMP	
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T AUTOMATIC SWITCH FOR WATER PUMP	1'-0" DN. FROM O.H.W.T SLAB
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T PRESSURE PUMP	2'-0" UP. FROM FIN. ROOF LEV.
	BELL PUSH POINT	3'-6"
	BUZZER POINT	8'-0"
	CEILING FAN POINT WITH REGULATOR	
	WALL BRACKET FAN POINT	7'-6"
	EXHAUST FAN POINT	
	SPLIT TYPE A/C UNIT	7'-6" (BOTTOM)
	MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	SUB-MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	TELEPHONE / CABLE D.B	0'-9" (BOTTOM)
	EARTH SET COMPLETE	
	LIGHT WIRING	
	POWER PLUG WIRING	
	INCOMING MAIN CABLE	
	UNDER GROUND WIRING	

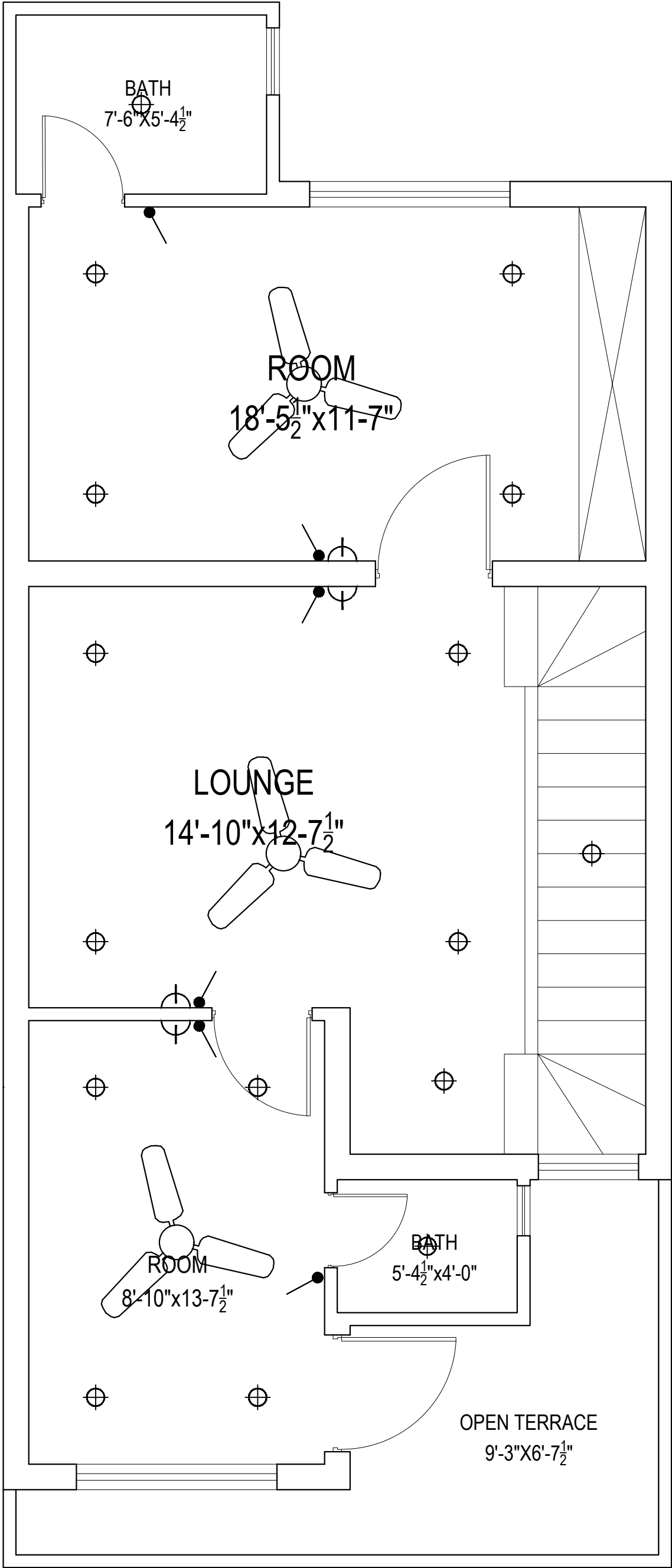


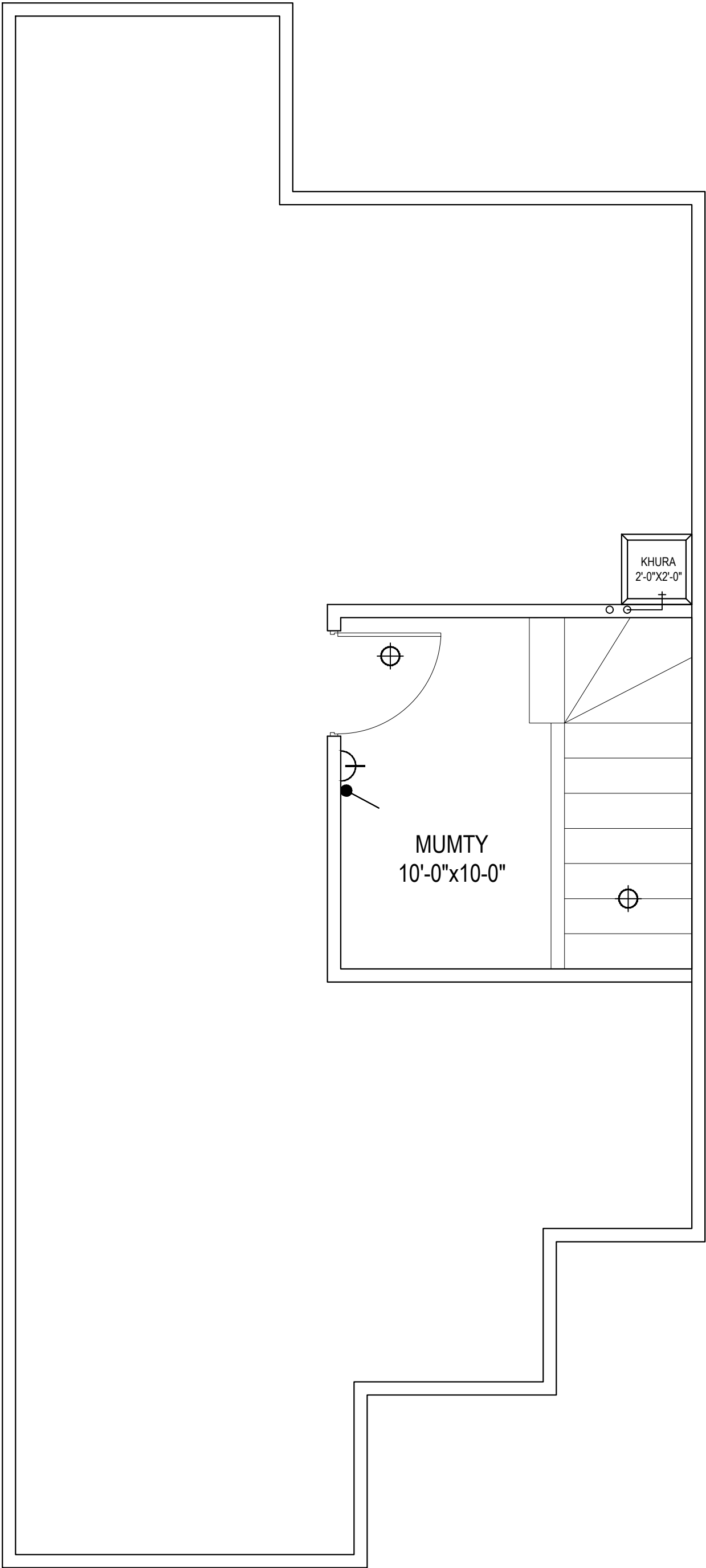


GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, G-10/1 & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S
								DATE
								09 JULY 2025

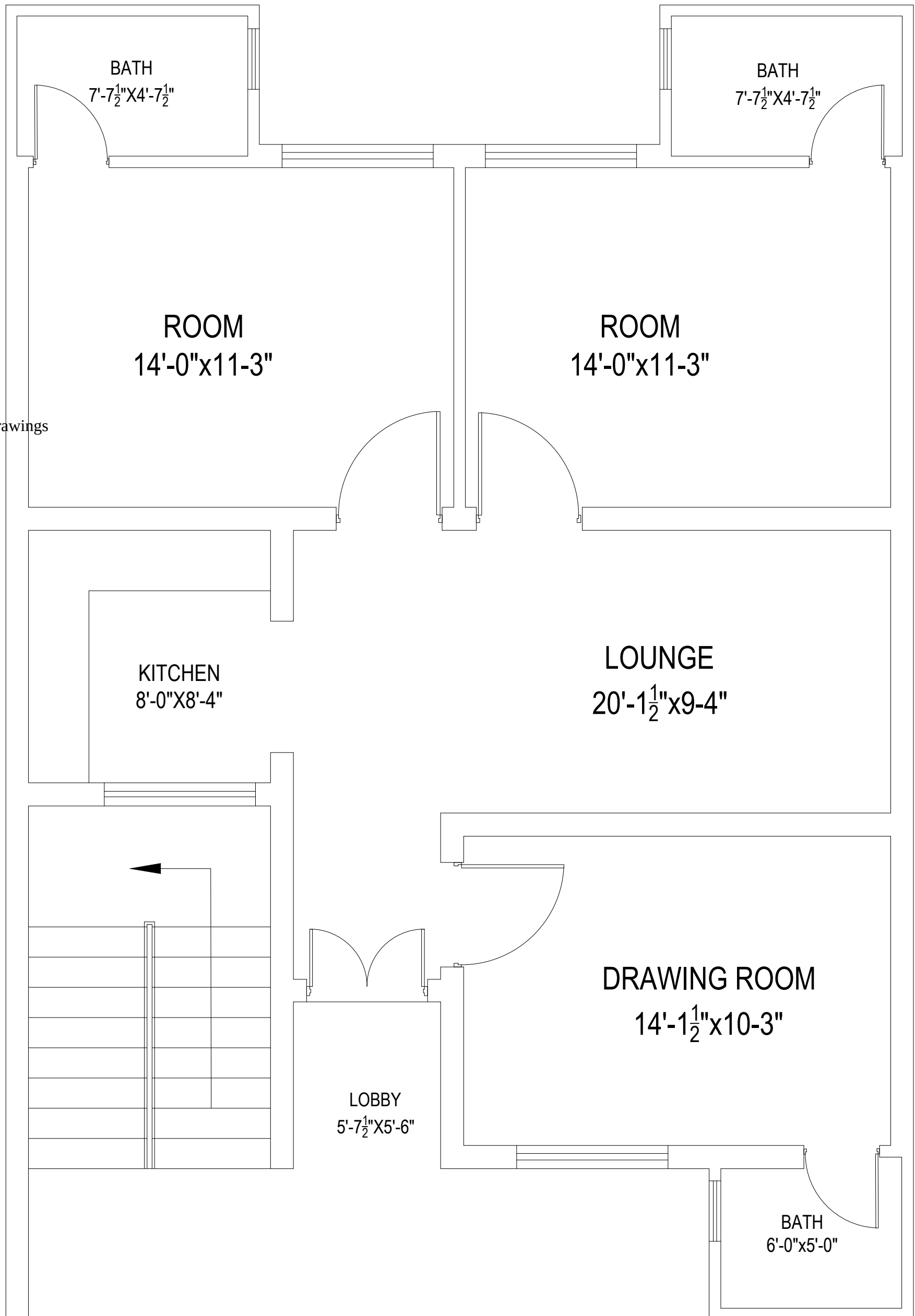






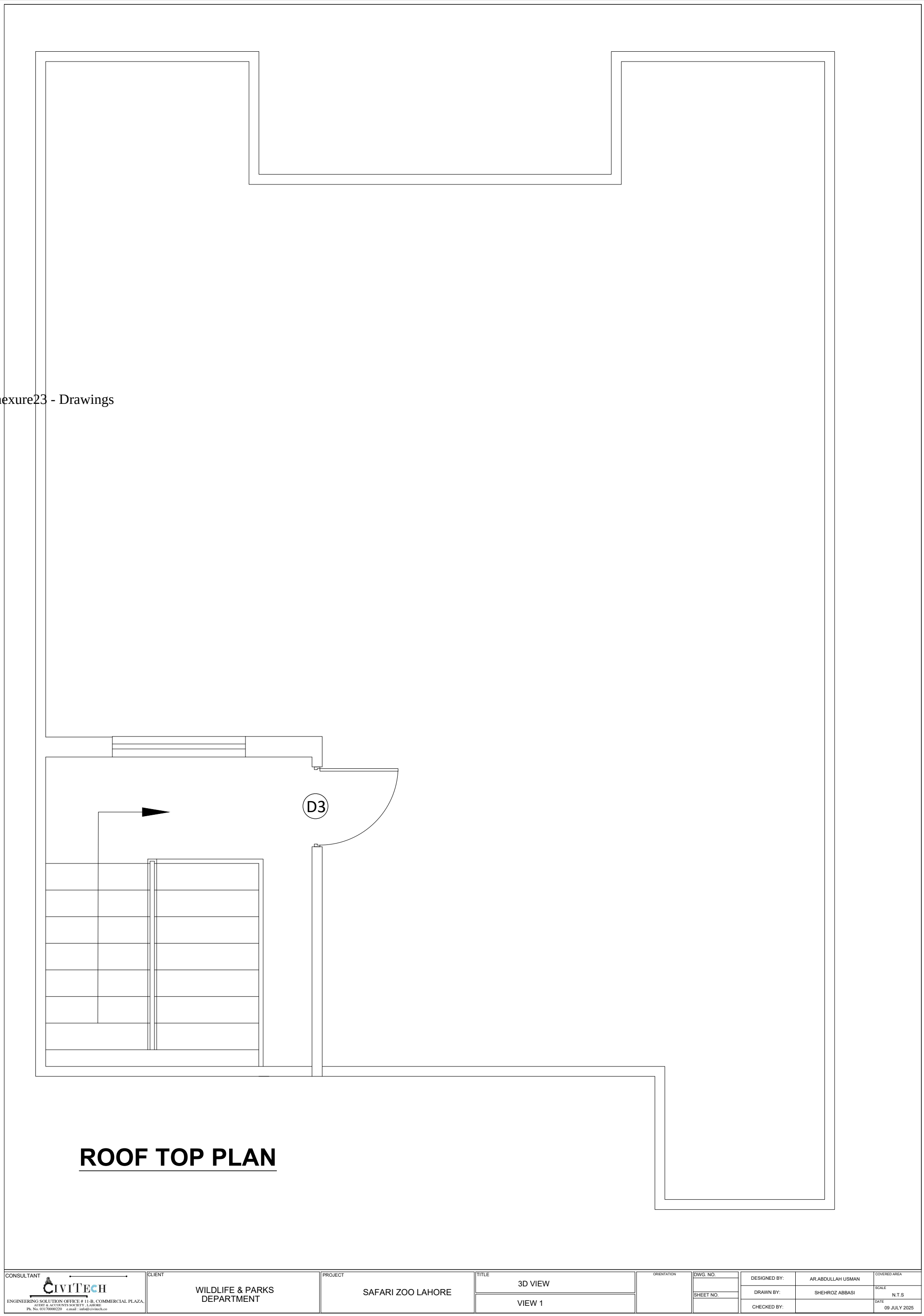
PROPOSED BUILDING FOR
STAFF RESIDENCE (BS 11 TO 15)
WORKING DRAWINGS JULY, 2025

Annexure23 - Drawings



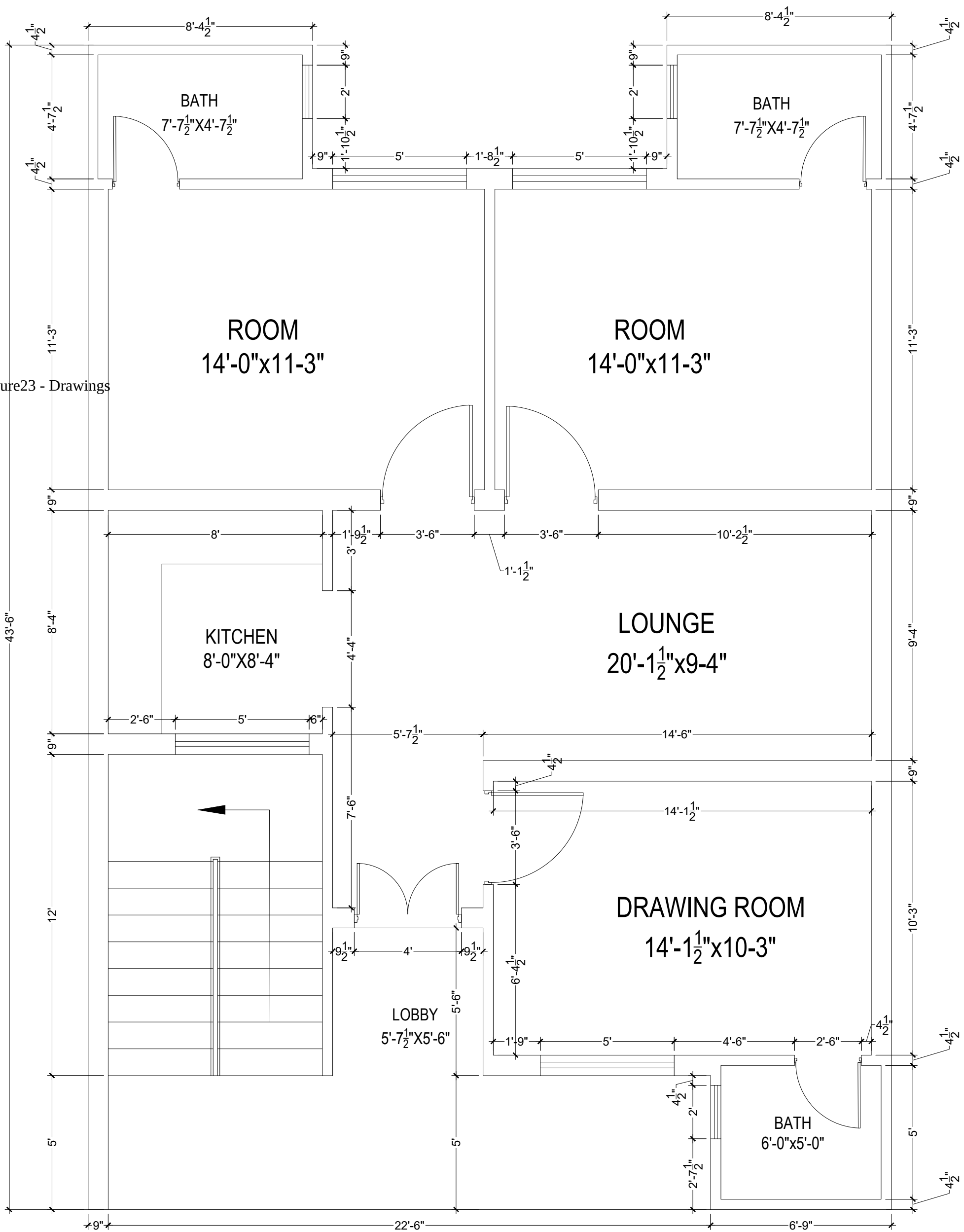
GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, ALFATE & RESIDENTS SOCIETY, LAHORE Ph. No. 031 70000220 e-mail : info@civitech.com	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE 3D VIEW	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			SHEET NO.		DRAWN BY:	SHEHROZ ABBASI	SCALE N.T.S	
					CHECKED BY:		DATE 09 JULY 2025	

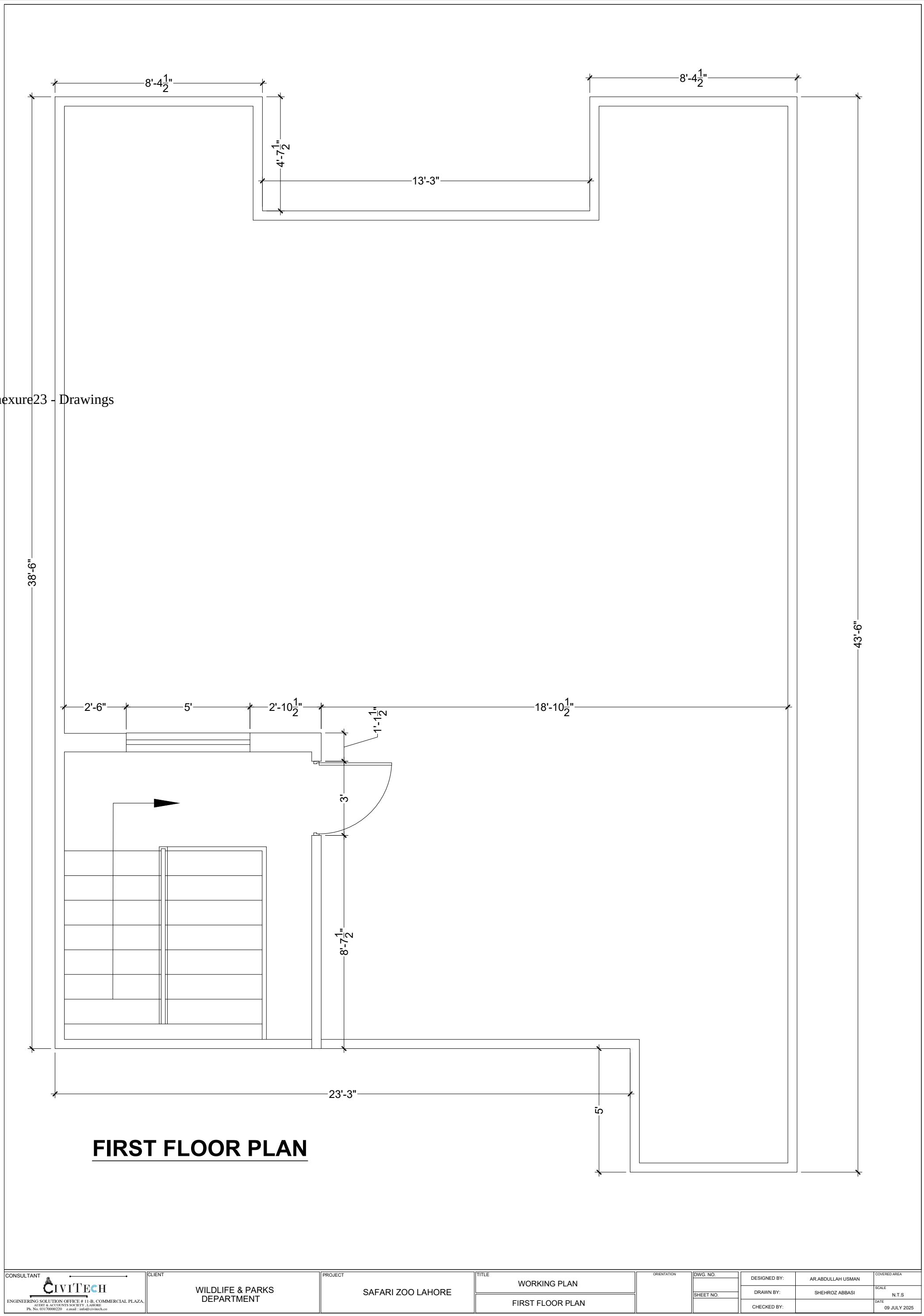


CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUST & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail: info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA			
			3D VIEW		SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE			
									VIEW 1	CHECKED BY:	DATE
WILDLIFE & PARKS DEPARTMENT		SAFARI ZOO LAHORE				N.T.S		09 JULY 2025			

Annexure23 - Drawings

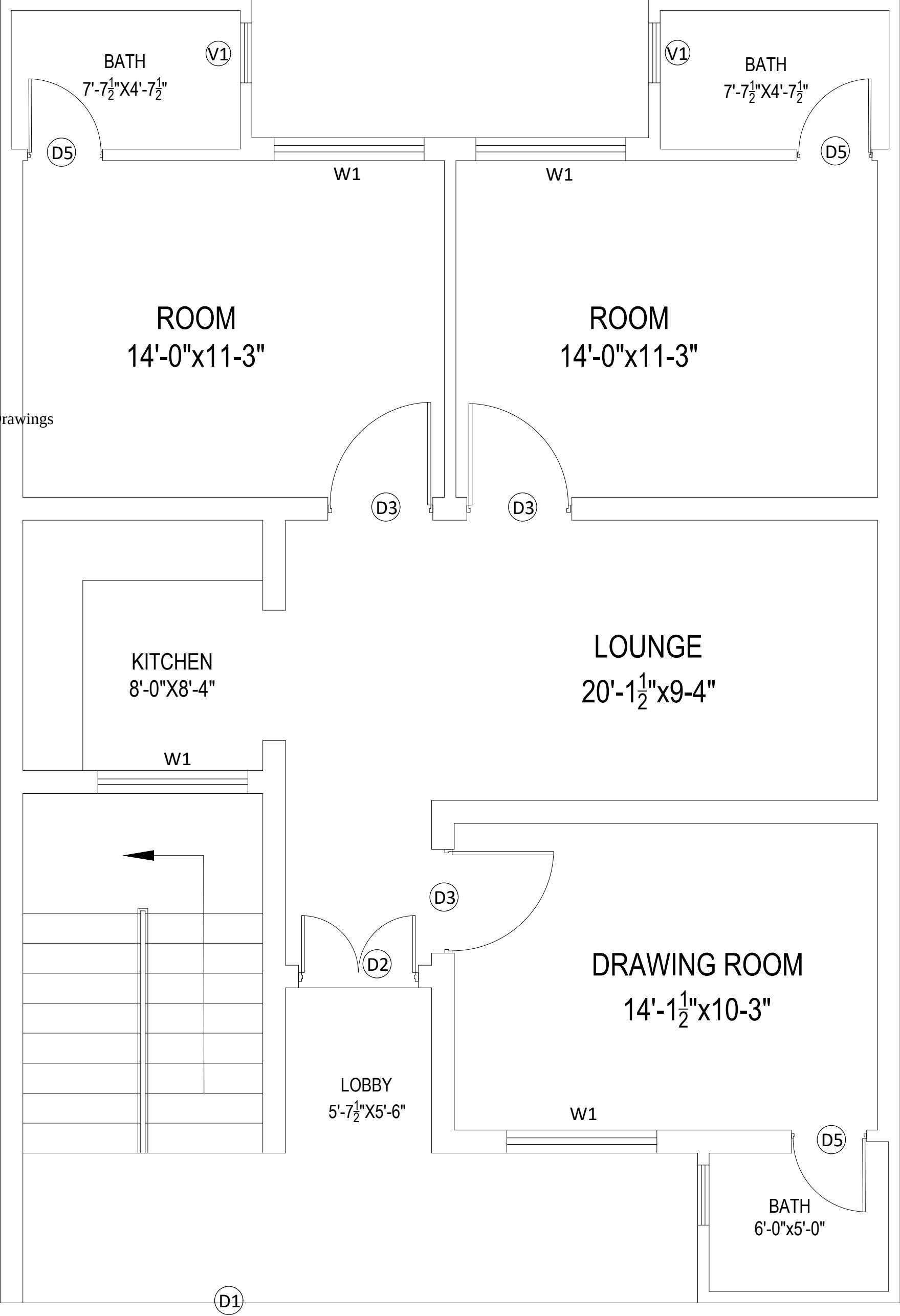


GROUND FLOOR PLAN



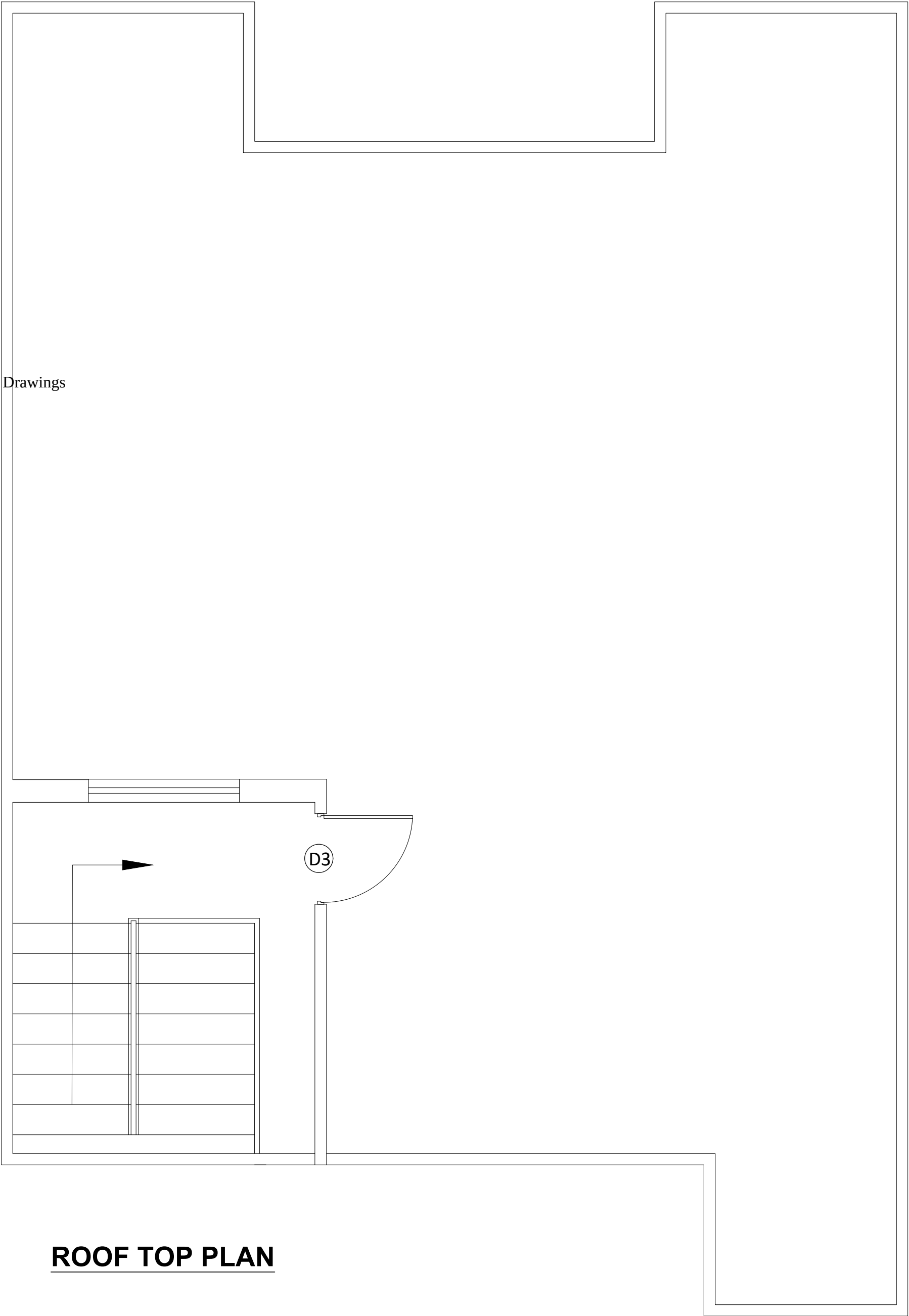
DOOR WINDOW SCHEDULE				
TYPE	WIDE	HIGH	SILL	DESCRIPTION
D1	8'-10.5"	8'-0"	0'-0"	MS STEEL DOOR
D2	4'-0"	7'-0"	0'-0"	MS STEEL DOOR
D3	3'-6"	7'-0"	0'-0"	MS STEEL DOOR
D4	3'-0"	7'-0"	0'-0"	MS STEEL DOOR
D5	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
D6	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
W1	6'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	5'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	3'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
V1	2'-0"	2'-0"	5'-0"	ALUMINUM GLASS WINDOW

Annexure23 - Drawings

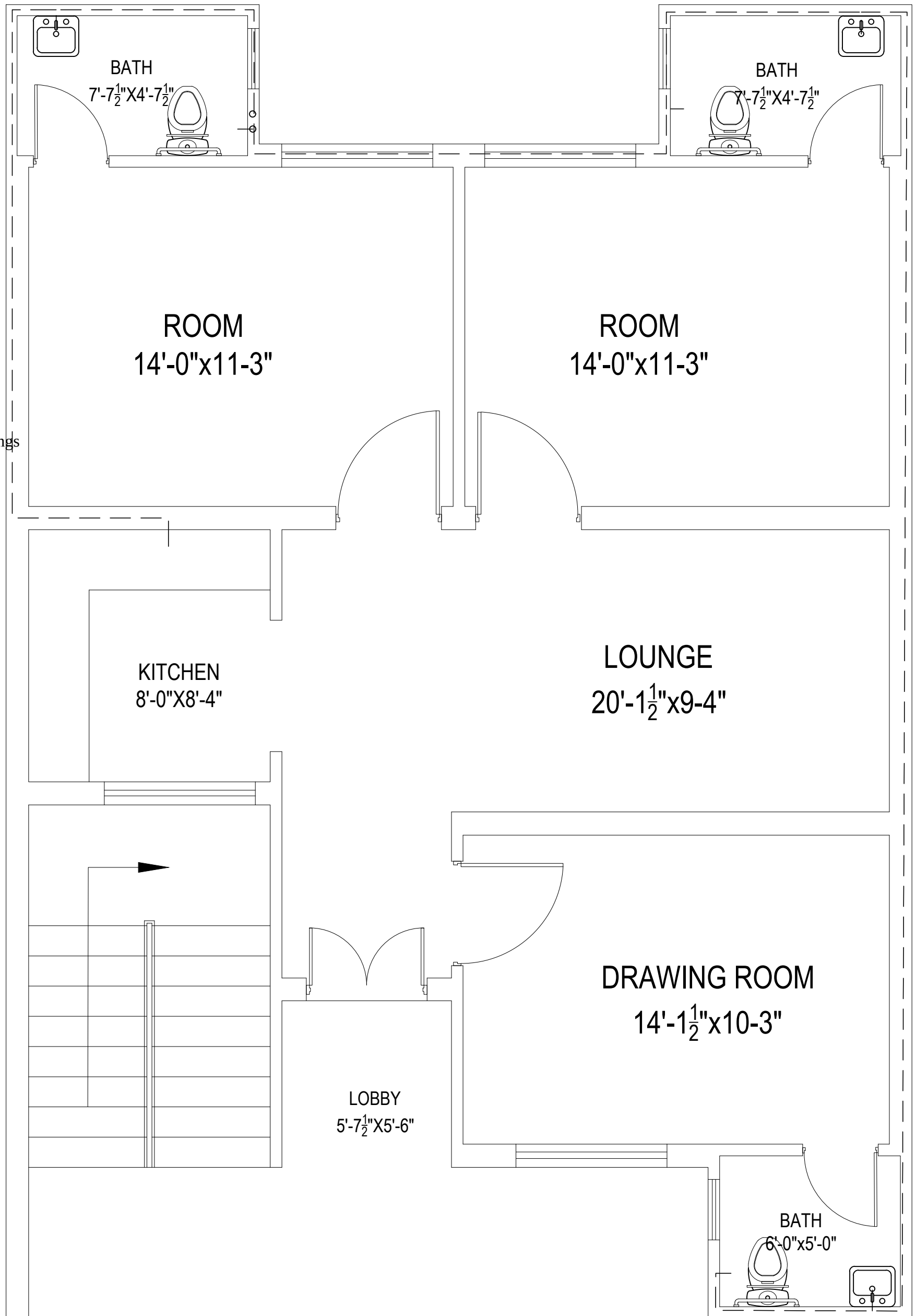


GROUND FLOOR PLAN

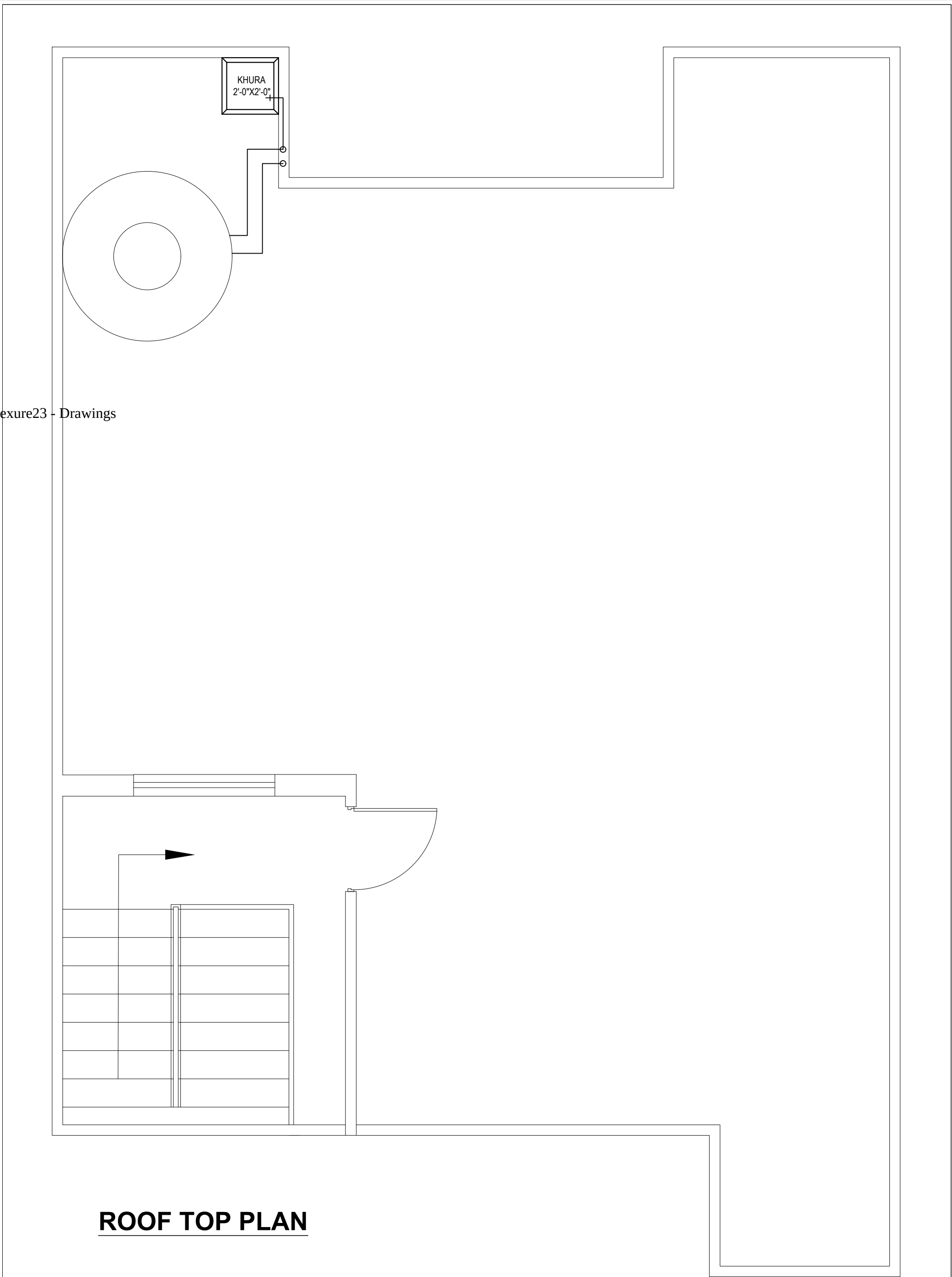
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUITF & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail - info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA		
					GROUND FLOOR PLAN			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE		
									DOOR WINDOW SCHEDULE		CHECKED BY:		DATE



Annexure23 - Drawings



GROUND FLOOR PLAN



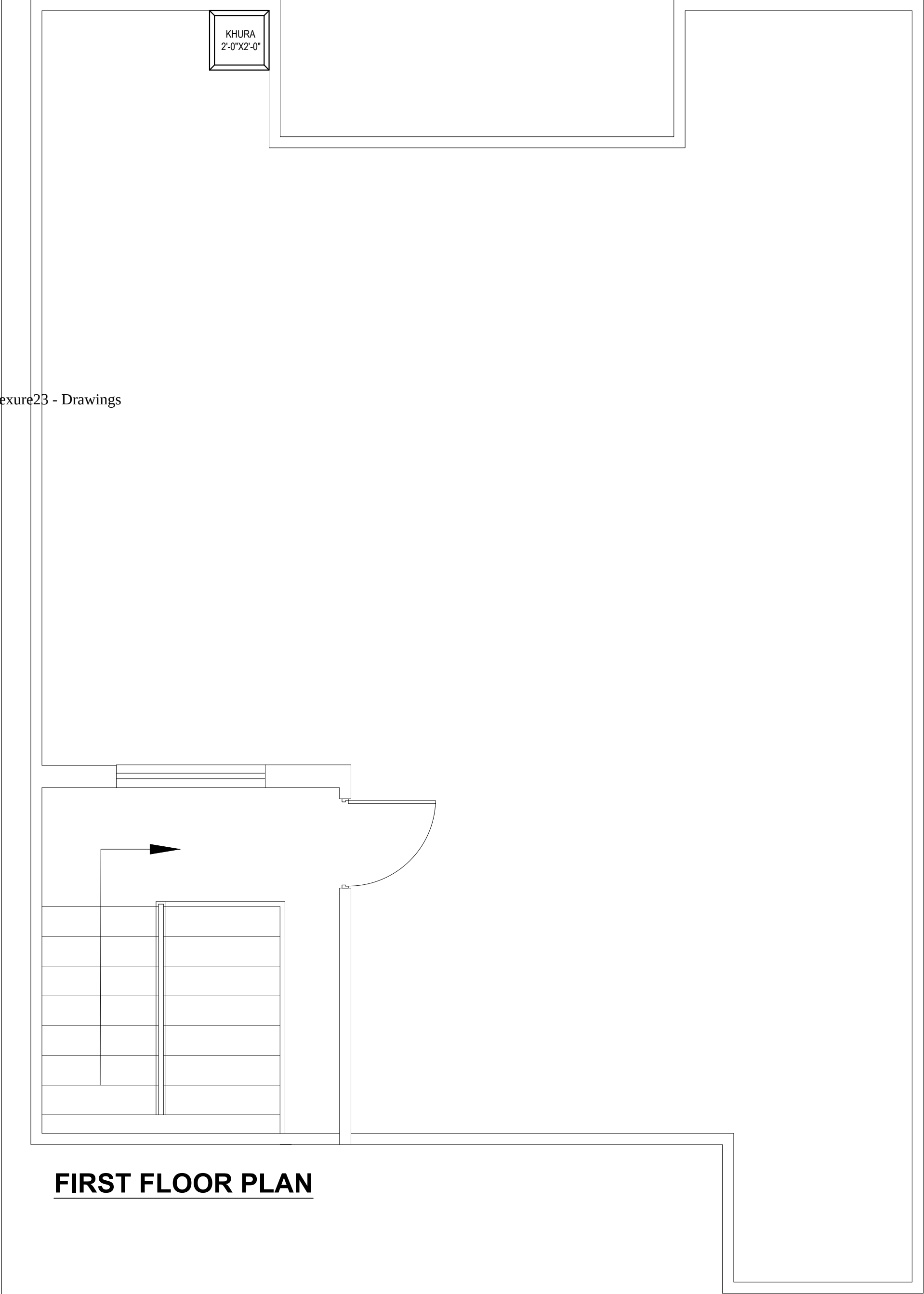
Annexure23 - Drawings

ROOF TOP PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AURAT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	FIRST FLOOR PLAN	ORIENTATION	N	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
									SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
										CHECKED BY:		N.T.S

Architectural floor plan of a building with two wings. The plan includes the following rooms and features:

- Top Wing:** Two identical rooms, each labeled **ROOM 14'-0"x11'-3"**. Each room has an adjacent **BATH 7'-7 $\frac{1}{2}$ "x4'-7 $\frac{1}{2}$ "** and a central **M.H.** (Manhole).
- Bottom Wing:** A large **LOUNGE 20'-1 $\frac{1}{2}$ "x9'-4"** and a **DRAWING ROOM 14'-1 $\frac{1}{2}$ "x10'-3"**. The drawing room has an adjacent **BATH 6'-0"x5'-0"** and a **M.H.**
- Left Wing:** A **KITCHEN 8'-0"x8'-4"** and a large area with a staircase and a **SP TANK** (Storage Tank).

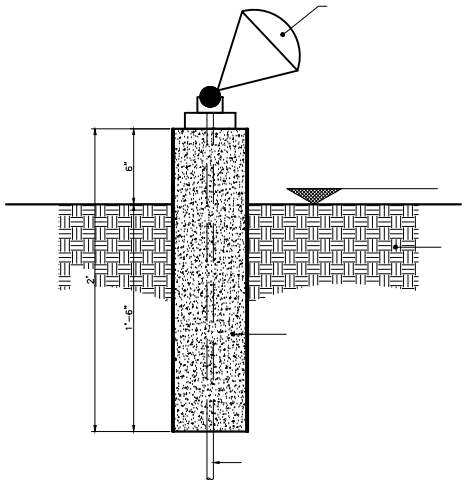
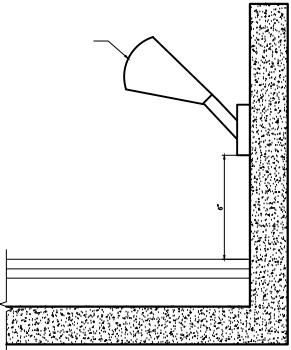


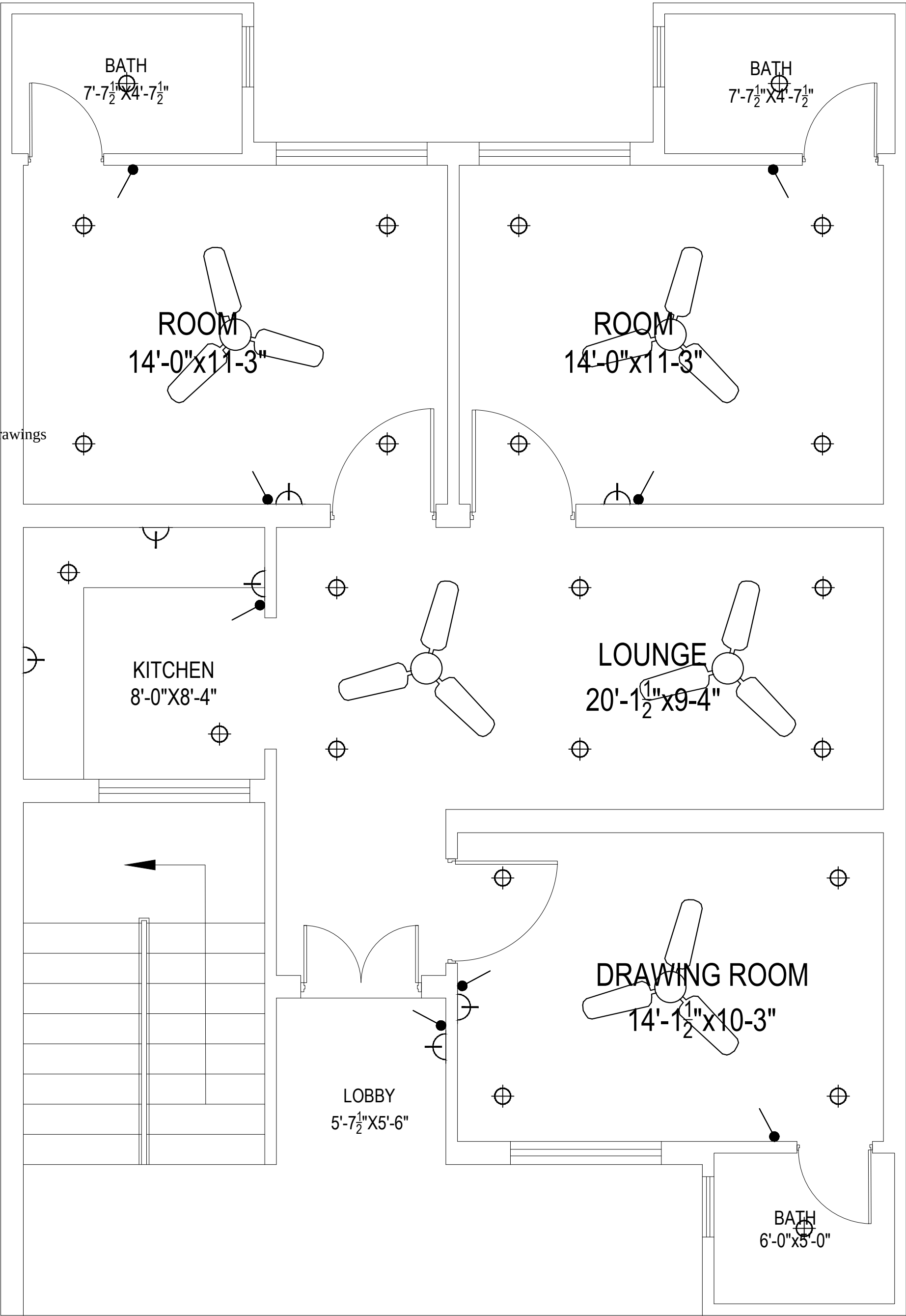
Annexure23 - Drawings

FIRST FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AJUNT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE FIRST FLOOR PLAN SEWERAGE SUPPLY	ORIENTATION	DWG. NO.	DESIGNED BY: ARABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:	DATE 09 JULY 2025

LEGEND FOR ELECTRICAL		
SYMBOL	DESCRIPTION	MOUNTING HT.
	5 Amp: SINGLE POLE FLUSH TYPE SWITCH BOARD	3'-6"
	5 Amp: 2 WAY FLUSH TYPE SWITCH POINT	3'-6"
	CEILING LIGHT POINT	
	WALL BRACKET LIGHT POINT	7'-6"
	EXTERNAL WALL BRACKET WATER PROOF LIGHT	7'-6"
	HANGING CORNER LIGHT POINT	
	WATER PROOF PLANT LIGHT POINT	1'-0"
	GARDEN LIGHT POINT	3'-6"
	MOTION DETECTOR LIGHT	3'-6"
	FACADE LIGHT	0'-6"
	SHANDLEAR POINT	
	TUBE LIGHT UNDER KITCHEN WALL CABINET	
	MAIN GATE LIGHT POINT	
	TRACK LIGHT	7'-6"
	CCTV CAMERA WITH 5 AMP: LIGHT PLUG	8'-6"
	T.V CABLE POINT	0'-9"
	CCTV CAMERA CONTROL POINT	0'-9"
	TELEPHONE / INTERCOM PLUG POINT	0'-9"
	NETWORKING POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	3'-6"
	3-PIN 15Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR U.G.W.T MOTOR PUMP	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR WATER COLLECTION CHAMBER SUBMERSIBLE PUMP	
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T AUTOMATIC SWITCH FOR WATER PUMP	1'-0" DN. FROM O.H.W.T SLAB
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T PRESSURE PUMP	2'-0" UP. FROM FIN. ROOF LEV.
	BELL PUSH POINT	3'-6"
	BUZZER POINT	8'-0"
	CEILING FAN POINT WITH REGULATOR	
	WALL BRACKET FAN POINT	7'-6"
	EXHAUST FAN POINT	
	SPLIT TYPE A/C UNIT	7'-6" (BOTTOM)
	MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	SUB-MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	TELEPHONE / CABLE D.B	0'-9" (BOTTOM)
	EARTH SET COMPLETE	
	LIGHT WIRING	
	POWER PLUG WIRING	
	INCOMING MAIN CABLE	
	UNDER GROUND WIRING	



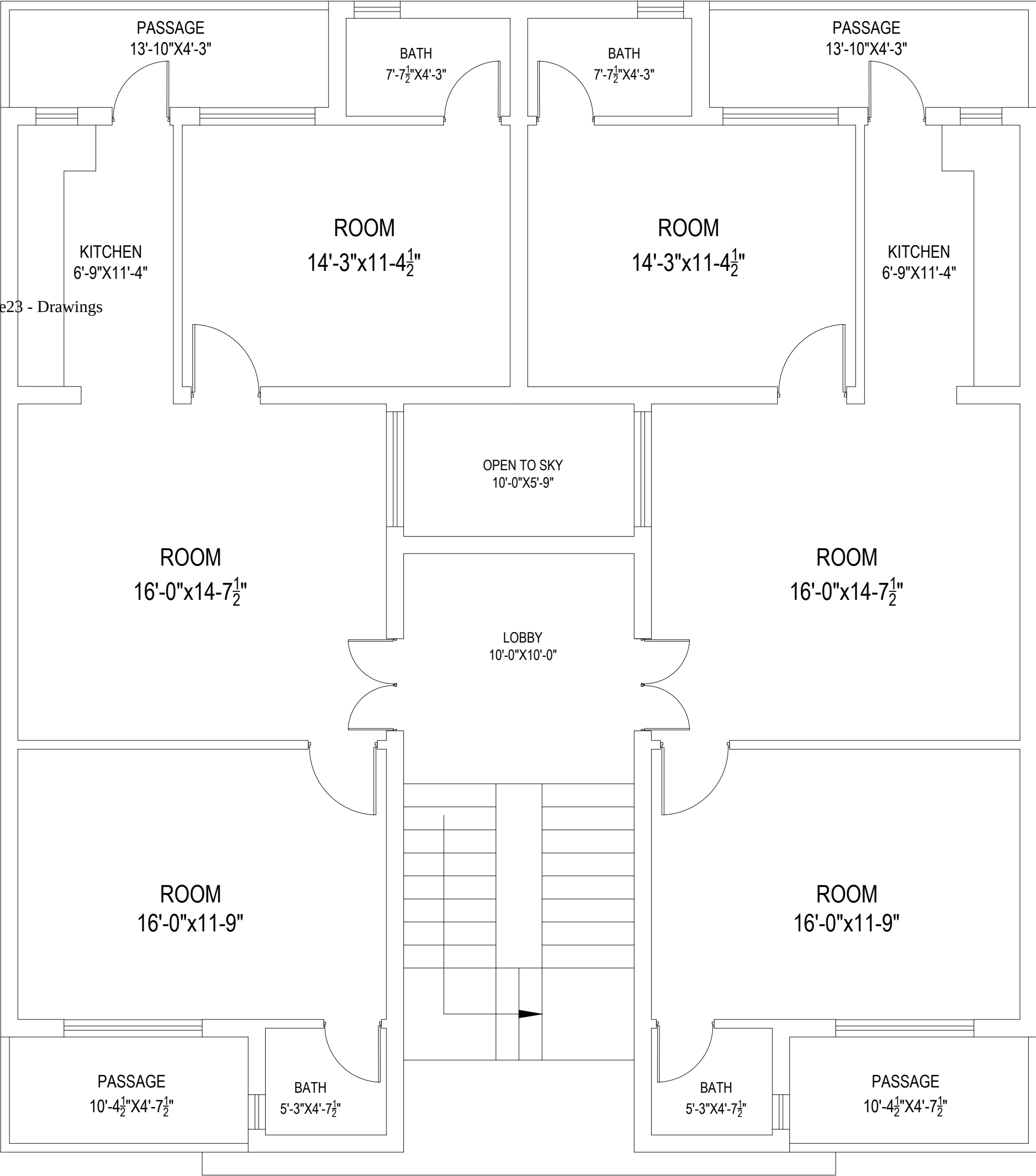


GROUND FLOOR PLAN

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AURAT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail: info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	GROUND FLOOR PLAN	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA			
					ELECTRICAL PLAN			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE			
												CHECKED BY:		DATE

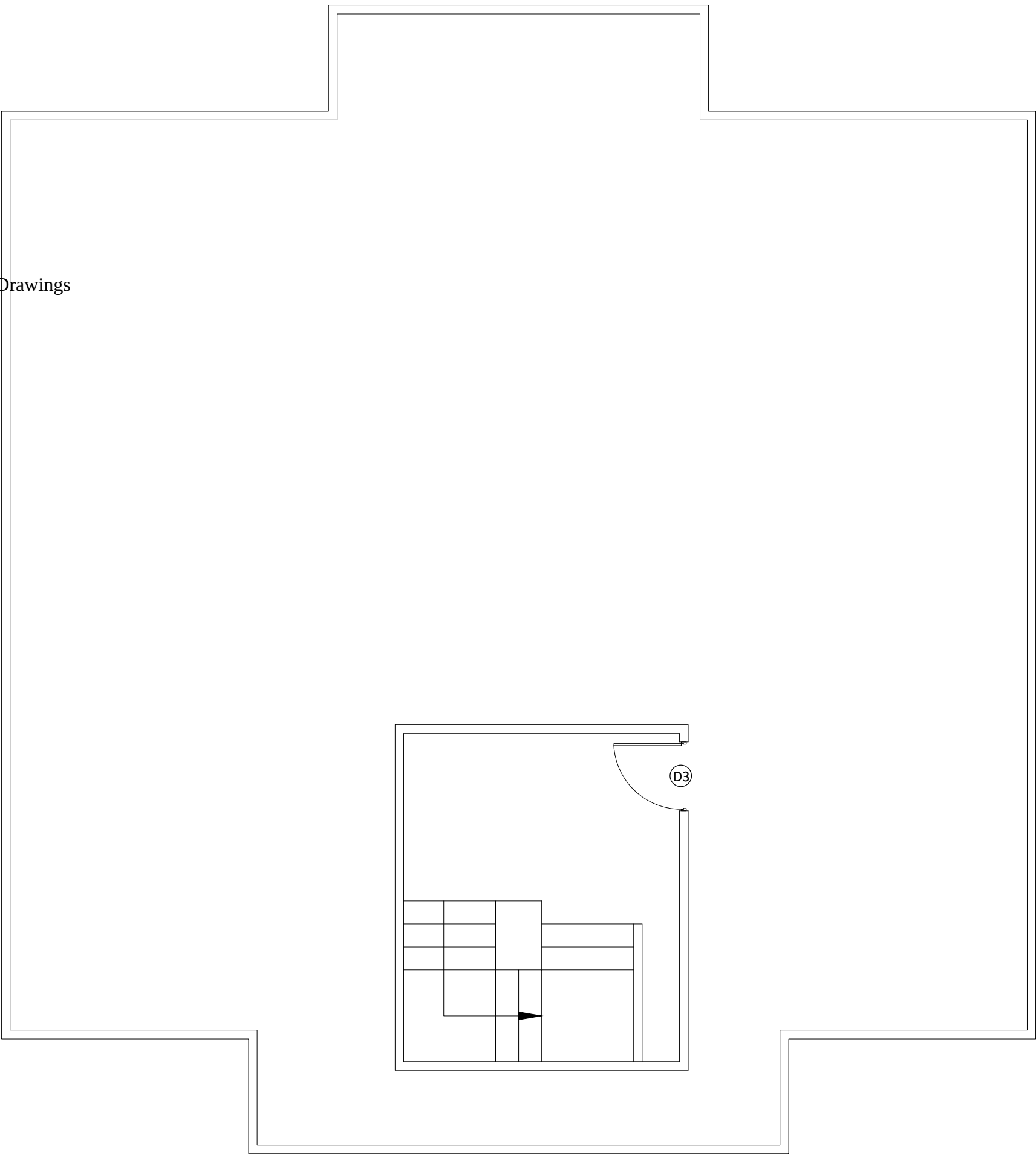
PROPOSED BUILDING FOR
STAFF RESIDENCE (BS 1 TO 10)
WORKING DRAWINGS JULY, 2025

Annexure23 - Drawings

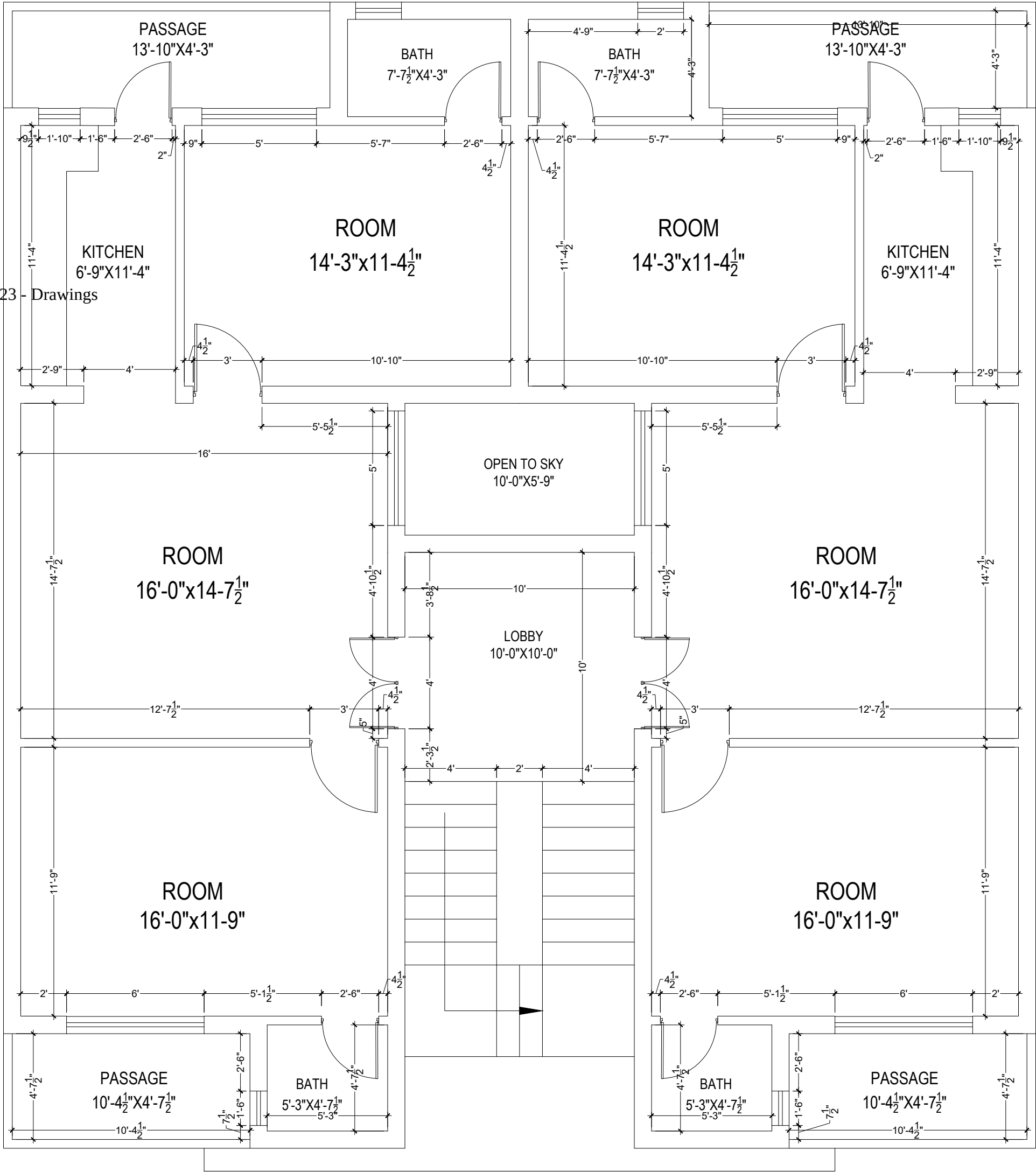


CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AURIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail - info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					3D VIEW				DRAWN BY:	SHEHROZ ABBASI	SCALE
								SHEET NO.		N.T.S	
									CHECKED BY:		DATE
					VIEW 1			09 JULY 2025			

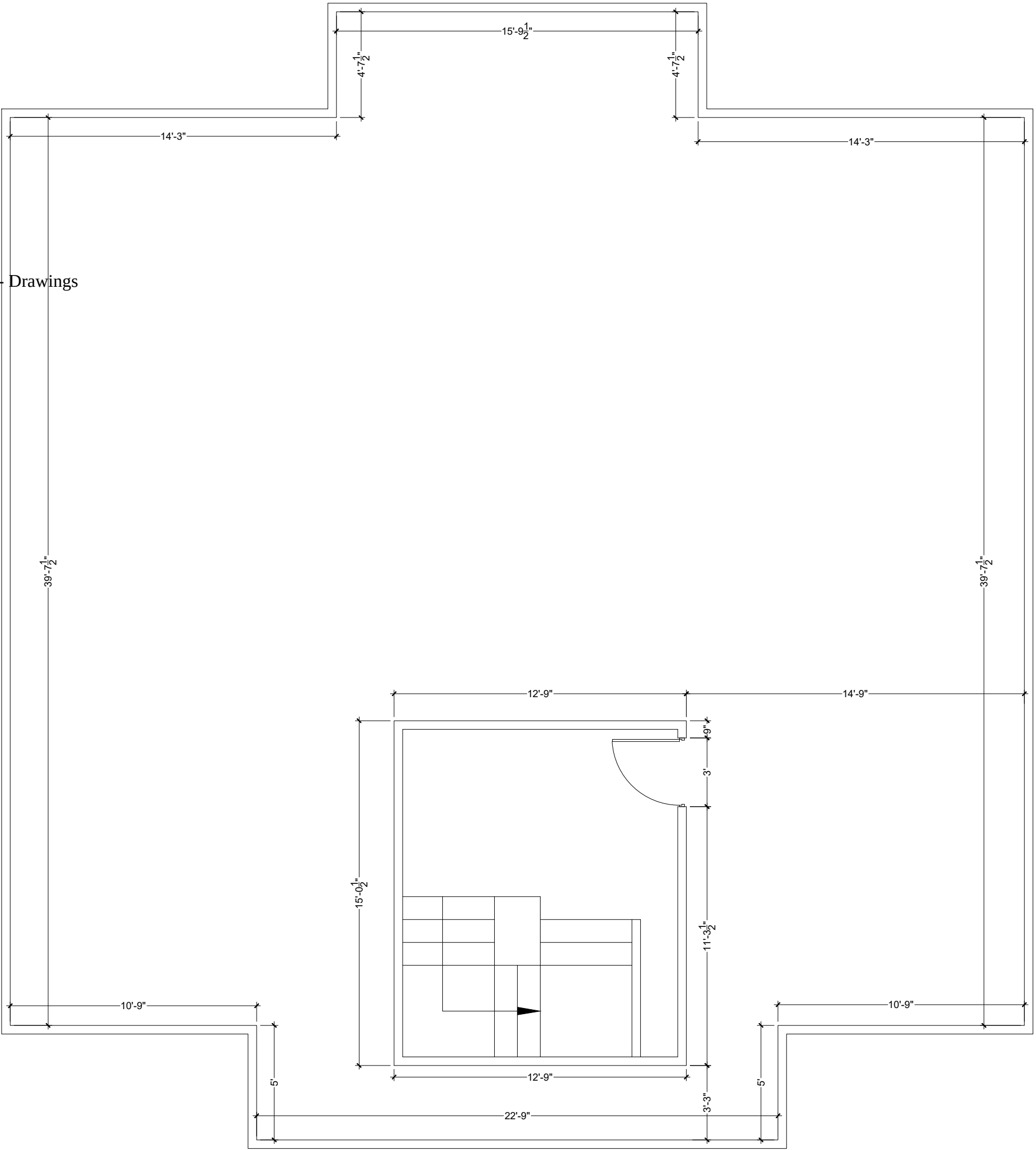
Annexure23 - Drawings



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, ALFAR & ALKUTUBI SOCIETY, LAHORE Ph. No. 03170000220 e.mail - info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE 3D VIEW	ORIENTATION	DWG. NO.	DESIGNED BY: AR.ABDOULLAH USMAN	COVERED AREA
			SHEET NO.		DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S	
			CHECKED BY:		DATE 09 JULY 2025		

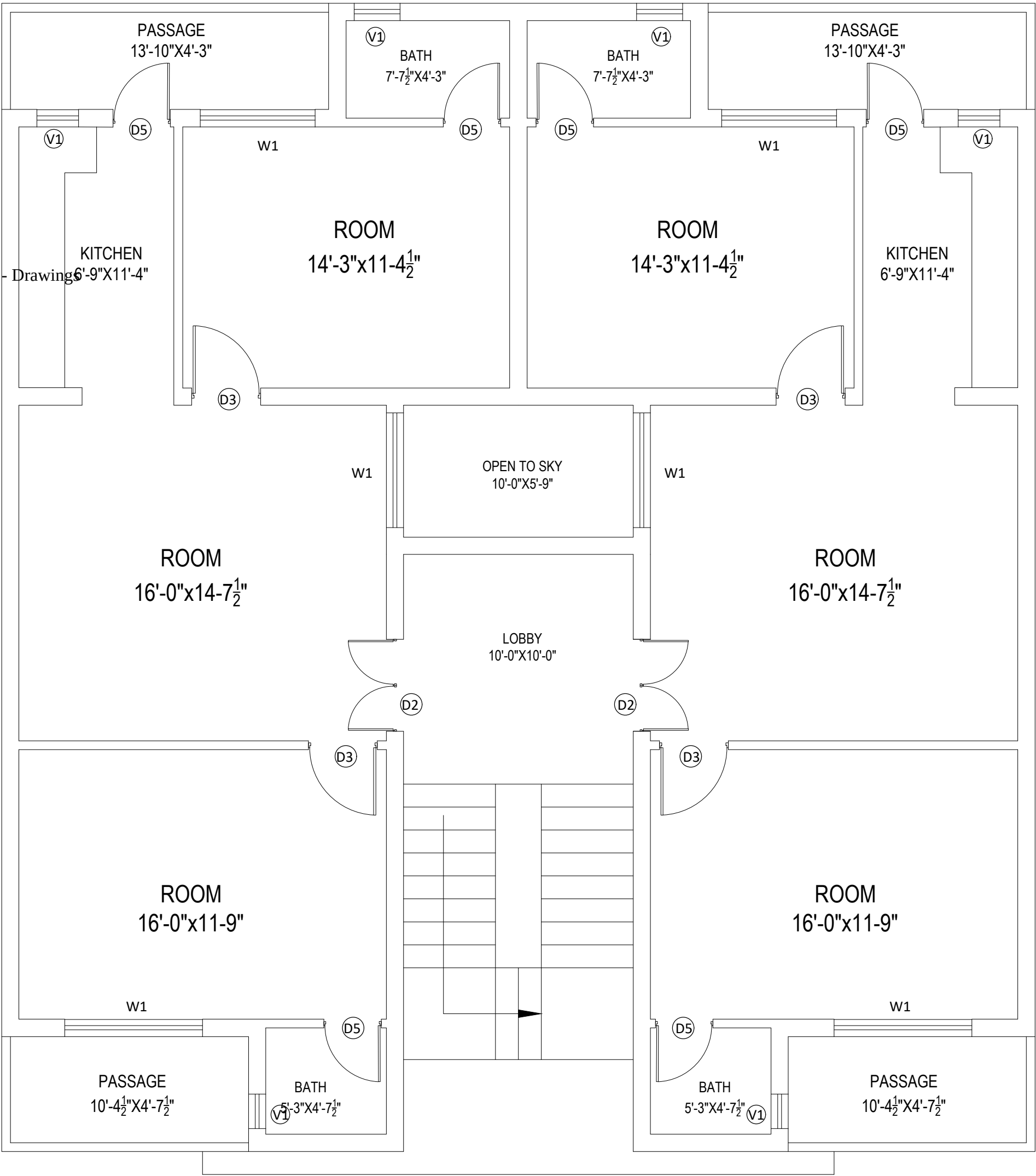


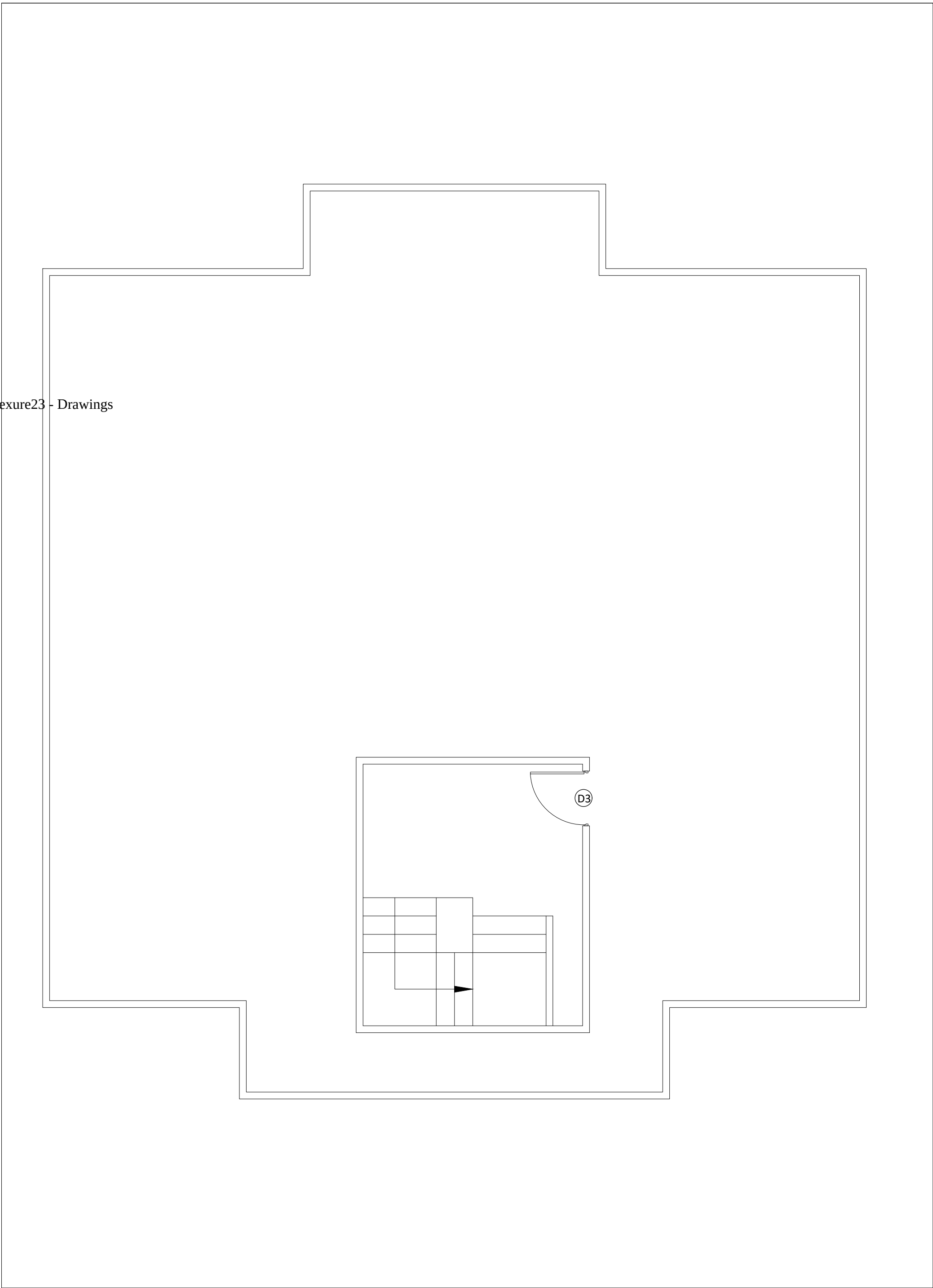
Annexure23 - Drawings



DOOR WINDOW SCHEDULE				
TYPE	WIDE	HIGH	SILL	DESCRIPTION
D1	8'-10.5"	8'-0"	0'-0"	MS STEEL DOOR
D2	4'-0"	7'-0"	0'-0"	MS STEEL DOOR
D3	3'-6"	7'-0"	0'-0"	MS STEEL DOOR
D4	3'-0"	7'-0"	0'-0"	MS STEEL DOOR
D5	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
D6	2'-6"	7'-0"	0'-0"	MS STEEL DOOR
W1	6'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	5'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
W2	3'-0"	5'-0"	3'-0"	ALUMINUM GLASS WINDOW
V1	2'-0"	2'-0"	5'-0"	ALUMINUM GLASS WINDOW

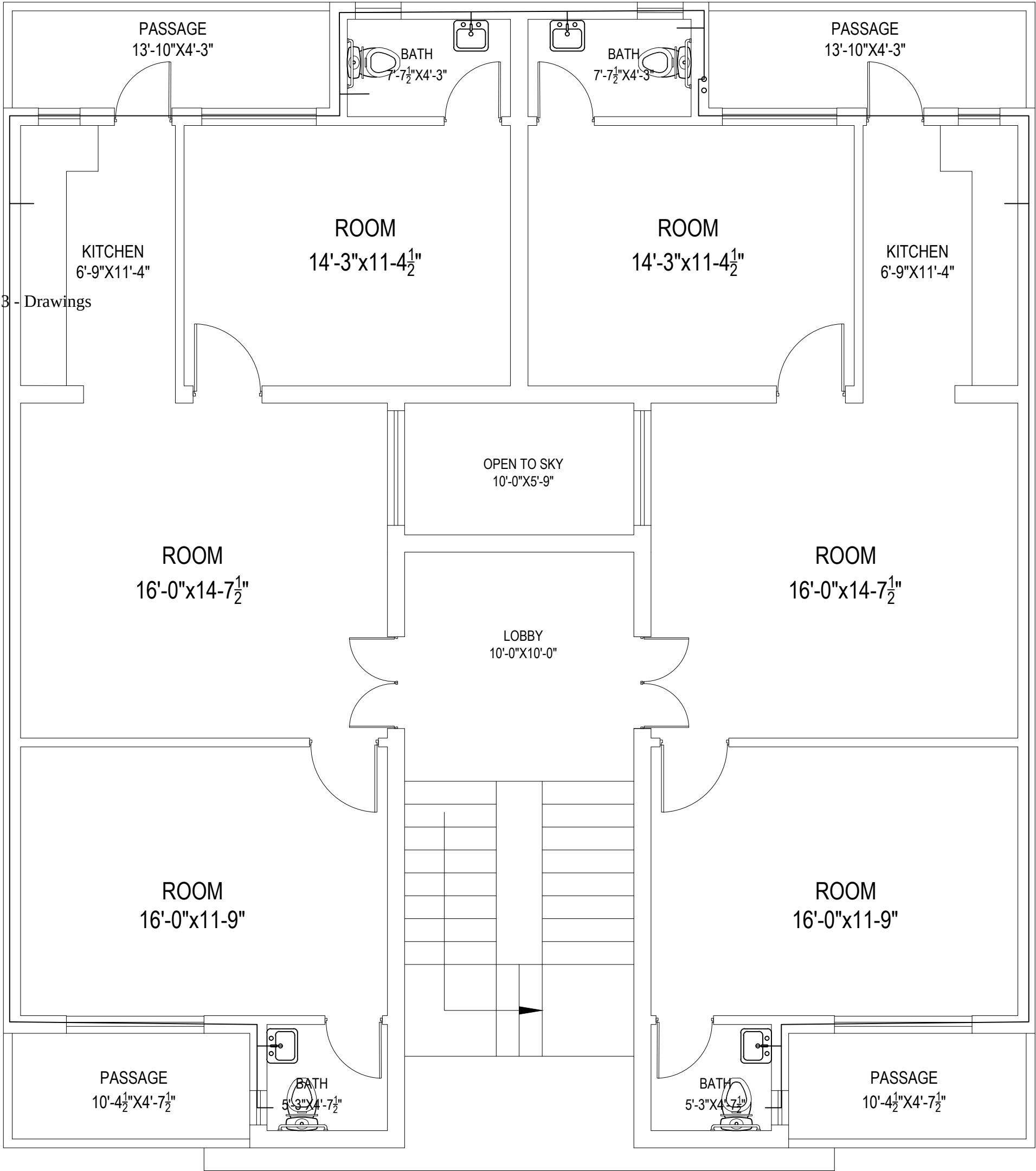
Annexure23 - Drawings

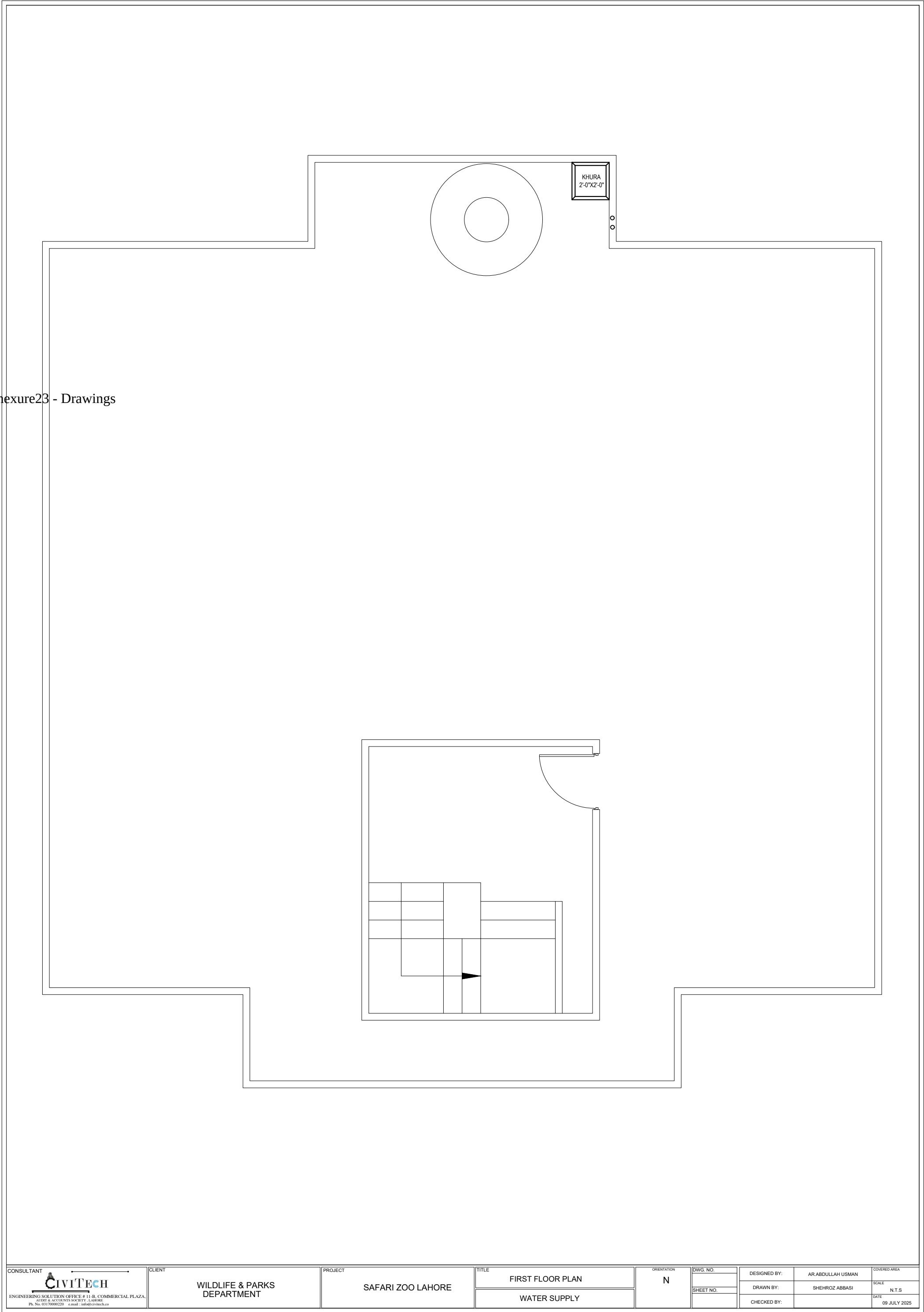




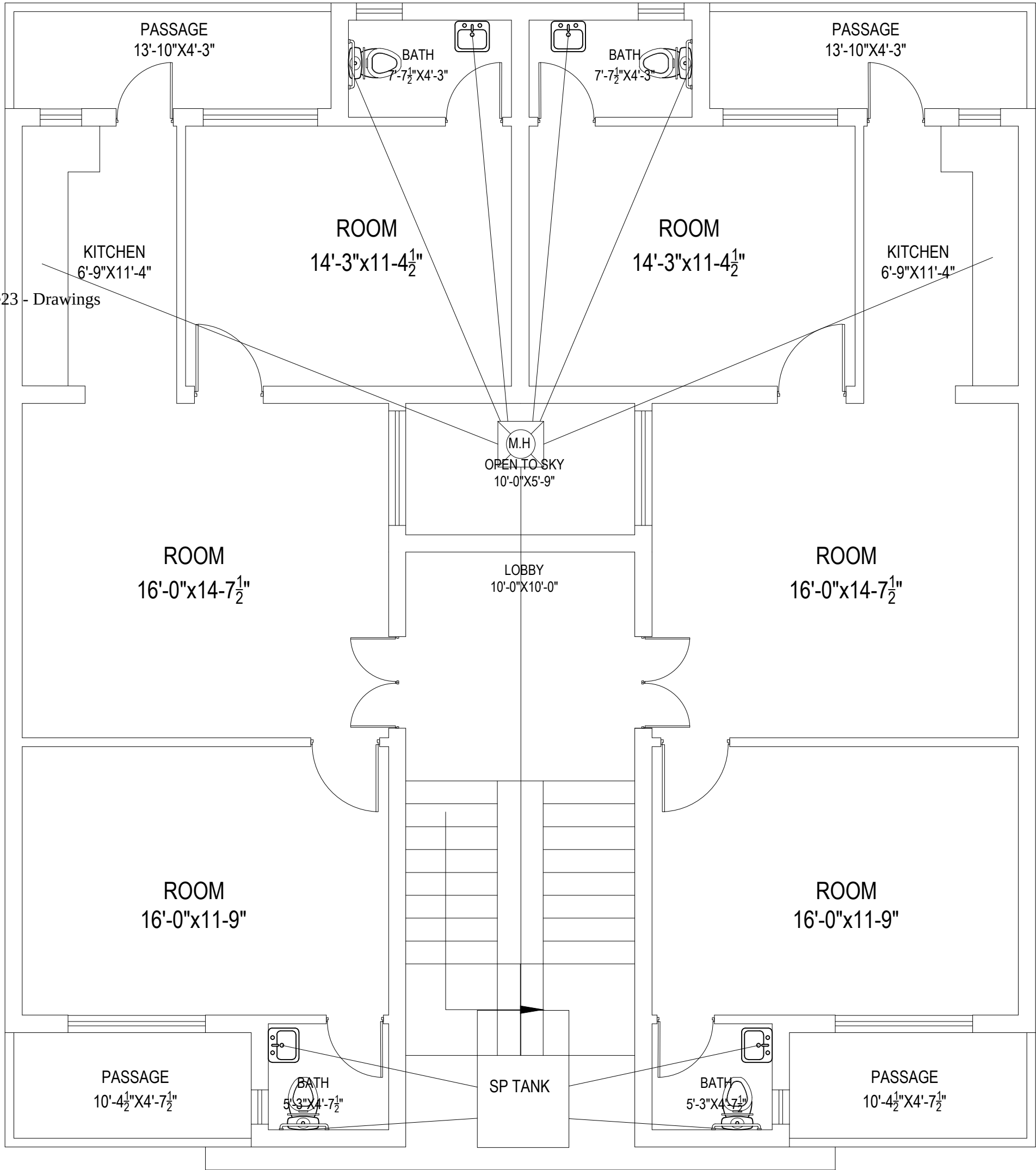
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUBIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
					FIRST FLOOR PLAN						
							SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE	
								CHECKED BY:		DATE	
						DOOR WINDOW SCHEDULE				N.T.S	09 JULY 2025

Annexure23 - Drawings

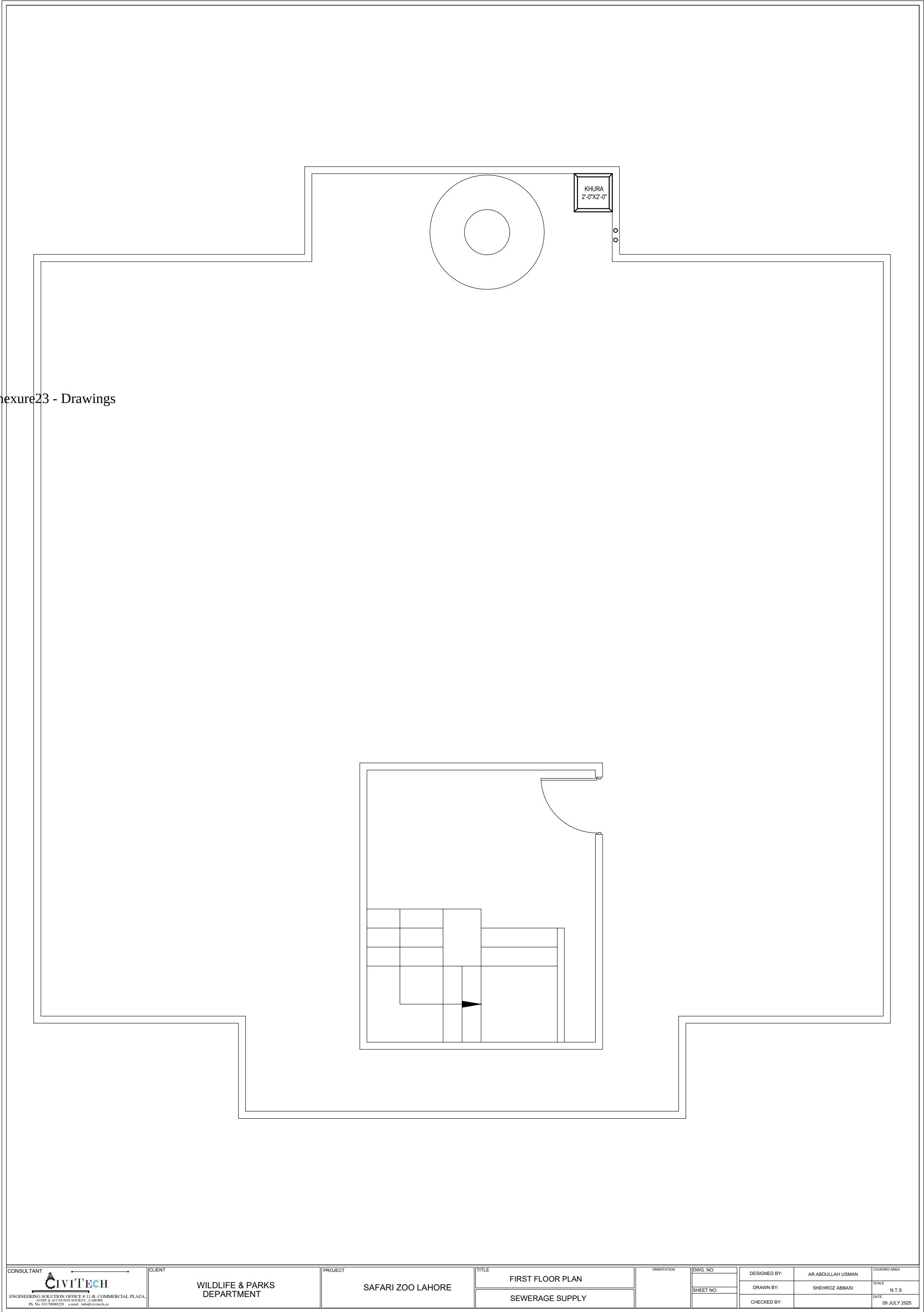


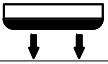


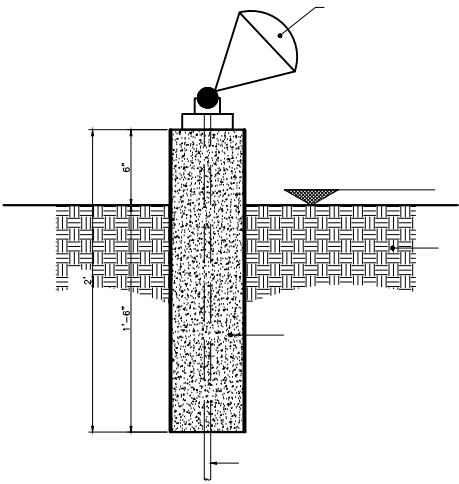
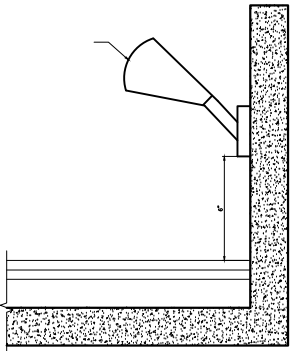
Annexure23 - Drawings



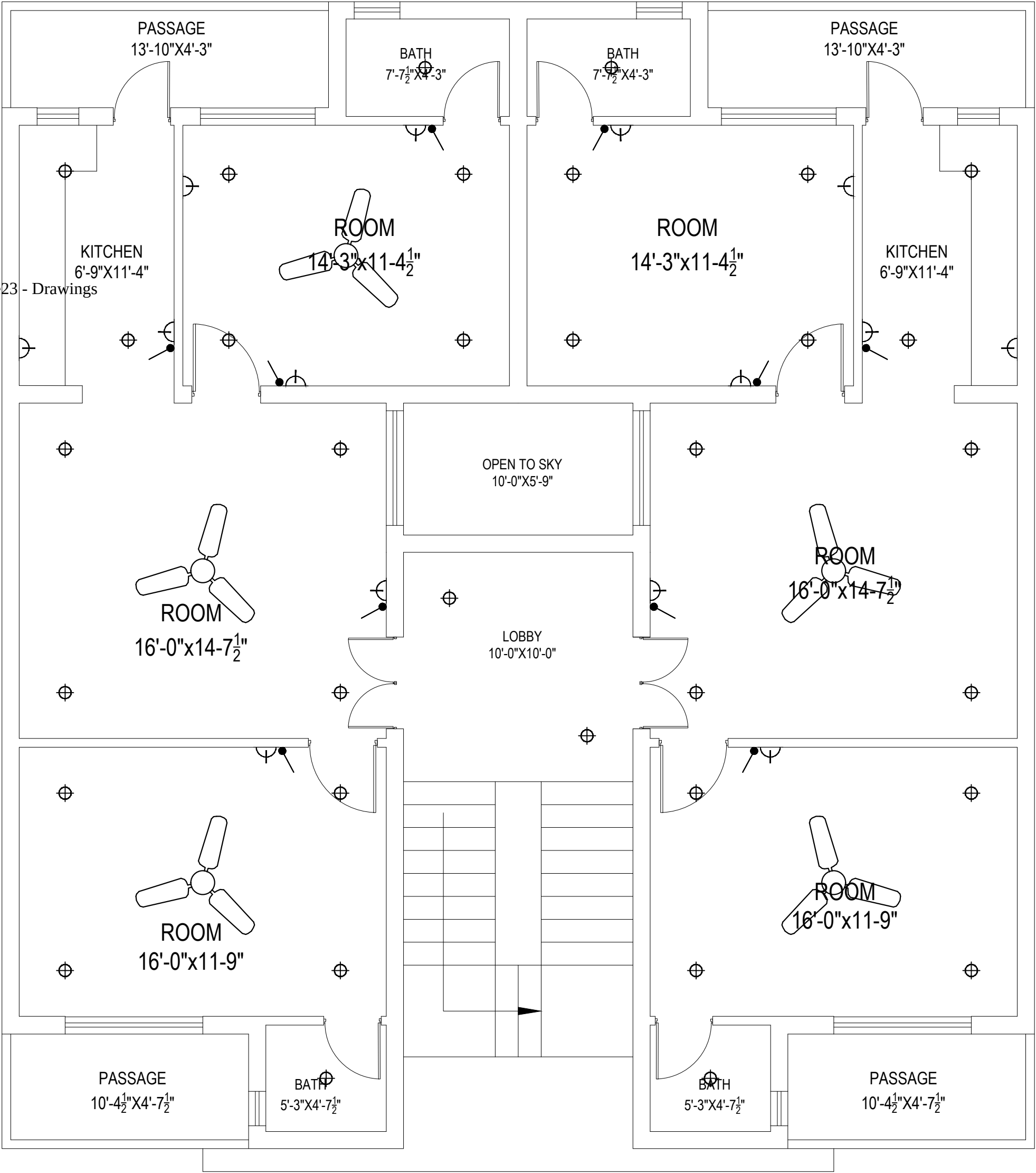
Annexure23 - Drawings

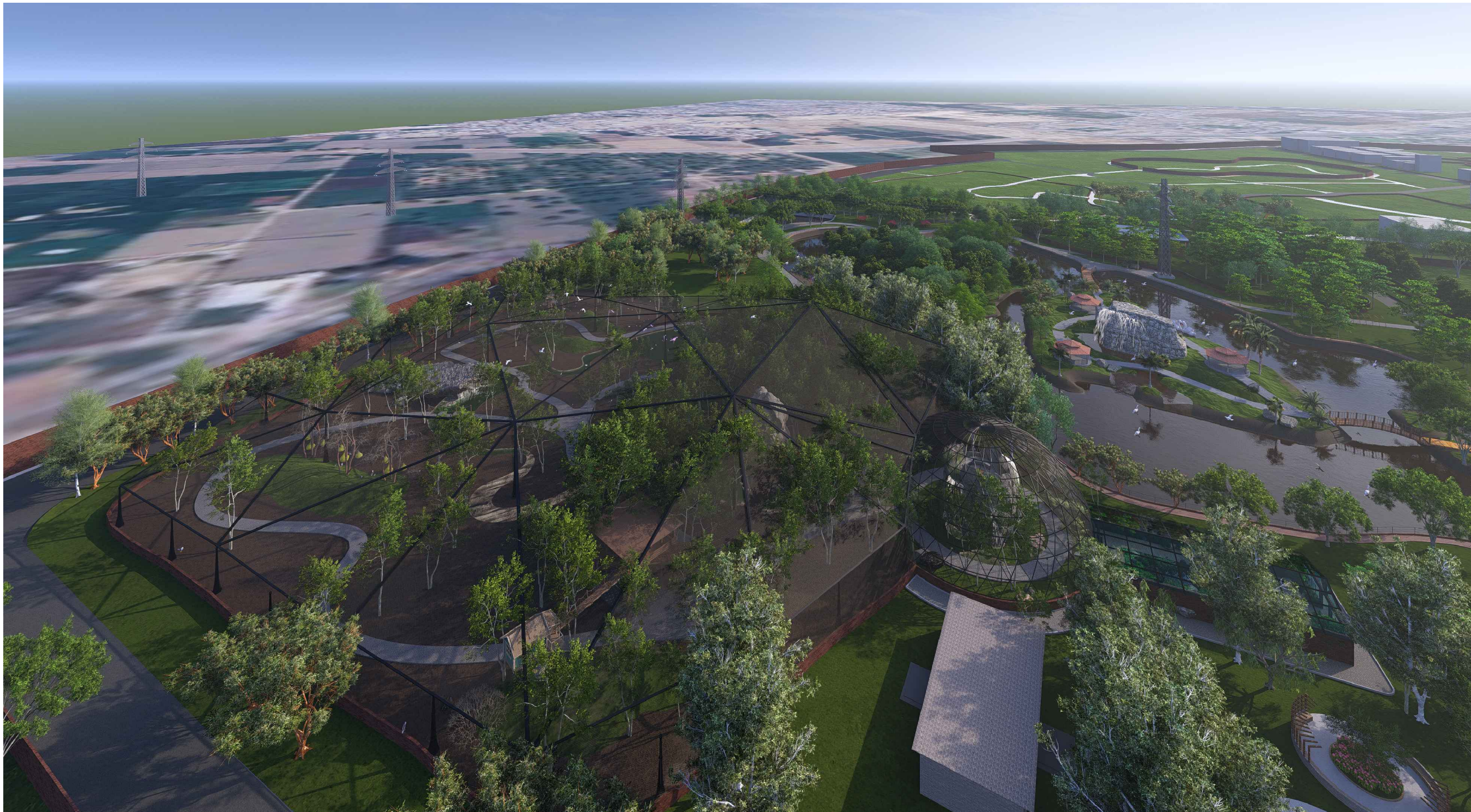


LEGEND FOR ELECTRICAL		
SYMBOL	DESCRIPTION	MOUNTING HT.
	5 Amp: SINGLE POLE FLUSH TYPE SWITCH BOARD	3'-6"
	5 Amp: 2 WAY FLUSH TYPE SWITCH POINT	3'-6"
	CEILING LIGHT POINT	
	WALL BRACKET LIGHT POINT	7'-6"
	EXTERNAL WALL BRACKET WATER PROOF LIGHT	7'-6"
	HANGING CORNER LIGHT POINT	
	WATER PROOF PLANT LIGHT POINT	1'-0"
	GARDEN LIGHT POINT	3'-6"
	MOTION DETECTOR LIGHT	3'-6"
	FACADE LIGHT	0'-6"
	SHANDLEAR POINT	
	TUBE LIGHT UNDER KITCHEN WALL CABINET	
	MAIN GATE LIGHT POINT	
	TRACK LIGHT	7'-6"
	CCTV CAMERA WITH 5 AMP: LIGHT PLUG	8'-6"
	T.V CABLE POINT	0'-9"
	CCTV CAMERA CONTROL POINT	0'-9"
	TELEPHONE / INTERCOM PLUG POINT	0'-9"
	NETWORKING POINT	0'-9"
	3–PIN 5Amp: WALL SOCKET PLUG POINT	0'-9"
	3–PIN 5Amp: WALL SOCKET PLUG POINT	3'-6"
	3–PIN 15Amp: WALL SOCKET PLUG POINT	0'-9"
	3–PIN 15Amp: WALL SOCKET PLUG POINT FOR U.G.W.T MOTOR PUMP	0'-9"
	3–PIN 15Amp: WALL SOCKET PLUG POINT FOR WATER COLLECTION CHAMBER SUBMERSIBLE PUMP	
	3–PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T AUTOMATIC SWITCH FOR WATER PUMP	1'-0" DN. FROM O.H.W.T SLAB
	3–PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T PRESSURE PUMP	2'-0" UP. FROM FIN. ROOF LEV.
	BELL PUSH POINT	3'-6"
	BUZZER POINT	8'-0"
	CEILING FAN POINT WITH REGULATOR	
	WALL BRACKET FAN POINT	7'-6"
	EXHAUST FAN POINT	
	SPLIT TYPE A/C UNIT	7'-6" (BOTTOM)
	MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	SUB–MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	TELEPHONE / CABLE D.B	0'-9" (BOTTOM)
	EARTH SET COMPLETE	
	LIGHT WIRING	
	POWER PLUG WIRING	
	INCOMING MAIN CABLE	
	UNDER GROUND WIRING	



Annexure23 - Drawings





PROPOSED BUILDING FOR
AVIARY AND PATHWAY WORKING DRAWINGS
JULY , 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY . LAHORE Ph. No. 03170000220 e.mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
			3D VIEW				DRAWN BY:	SHEHROZ ABBASI	SCALE	
			VIEW 1			SHEET NO.		CHECKED BY:		N.T.S
									DATE	
									09 JULY 2025	



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

3D VIEW

VIEW 2

ORIENTATION

DWG. NO.

SHEET NO.

DESIGNED BY:

DRAWN BY:

CHECKED BY:

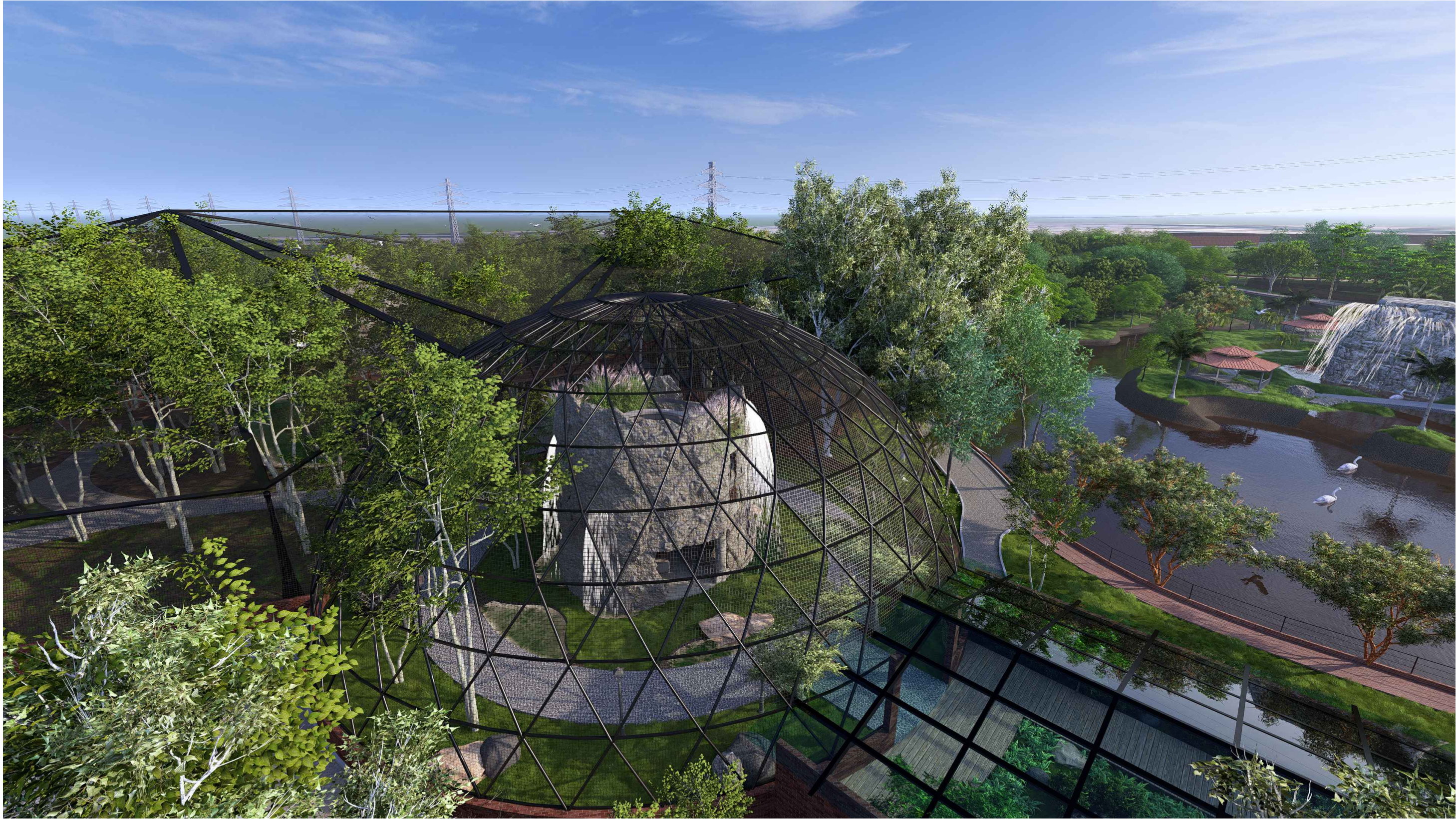
AR.ABDULLAH USMAN

SHEHROZ ABBASI

COVERED AREA

SCALE
N.T.S

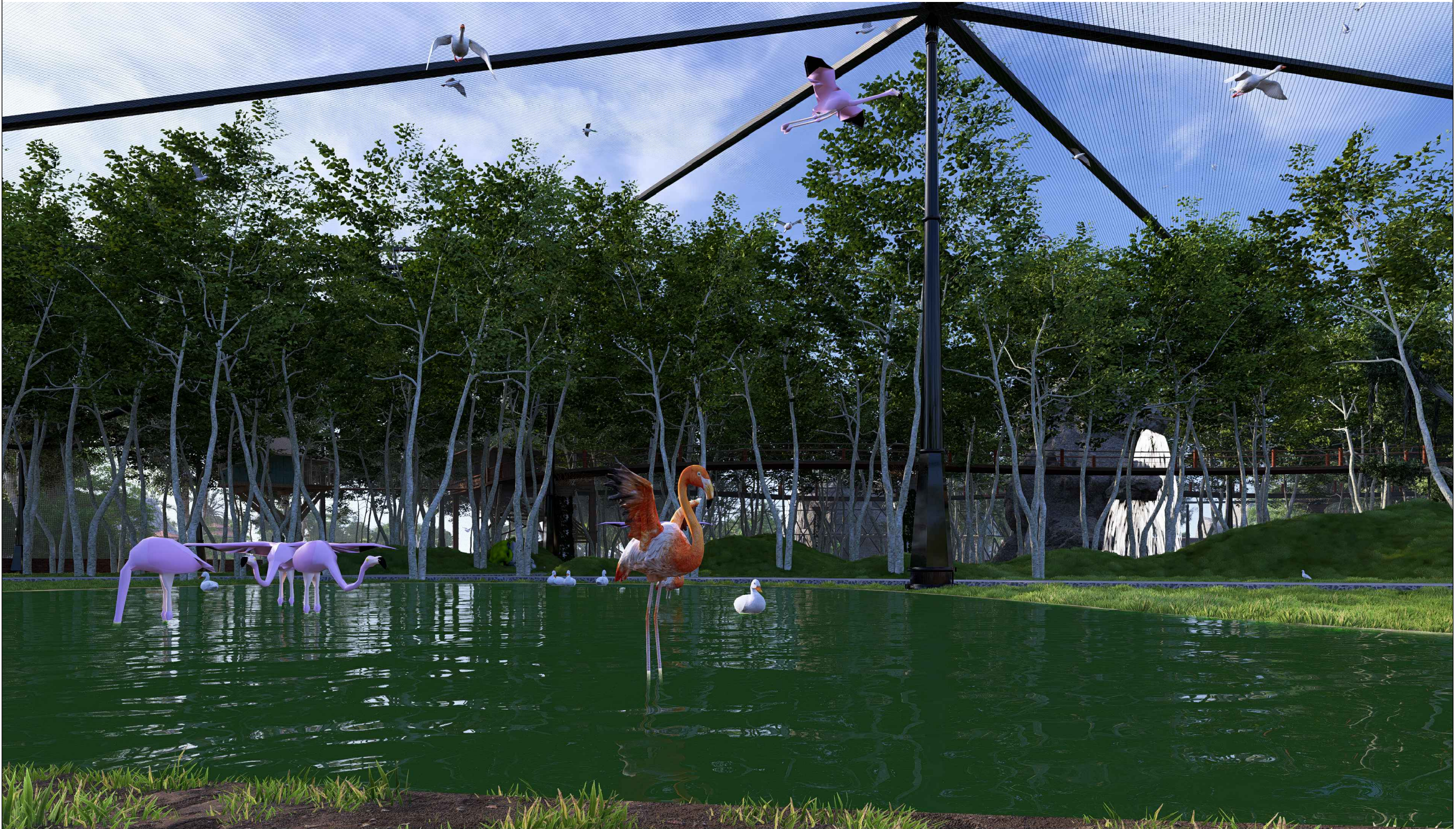
DATE
09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE 3D VIEW VIEW 2	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:		DATE 09 JULY 2025



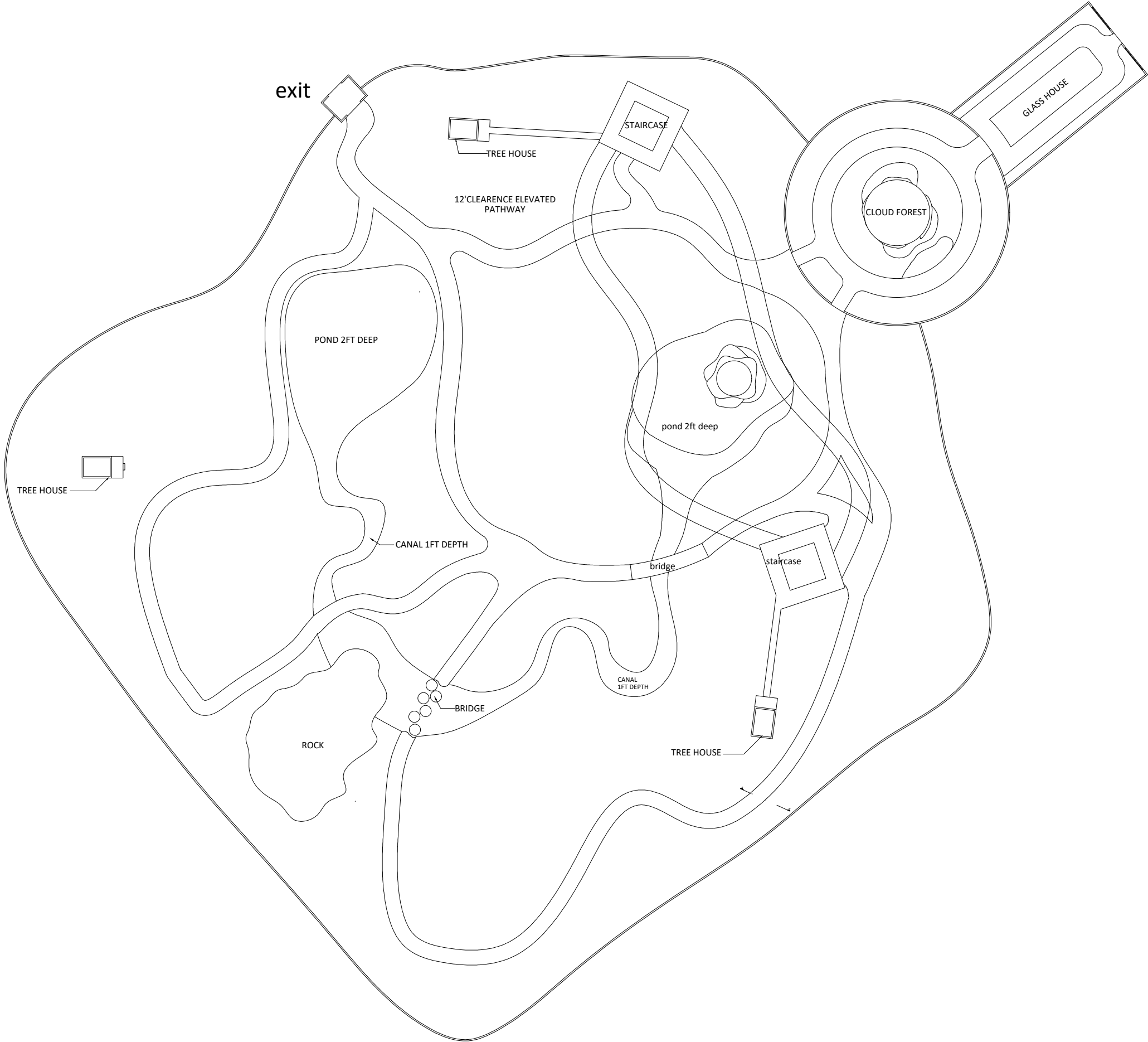
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY , LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			3D VIEW						
			VIEW 4			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
							CHECKED BY:		N.T.S
								DATE	09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			3D VIEW						
			VIEW 5			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE N.T.S
				CHECKED BY:			DATE 09 JULY 2025		



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			3D VIEW				DRAWN BY:	SHEHROZ ABBASI	SCALE
			VIEW 6			SHEET NO.	CHECKED BY:		N.T.S
									09 JULY 2025



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

MASTER PLAN

AVIARY DOME AND PATHWAY

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

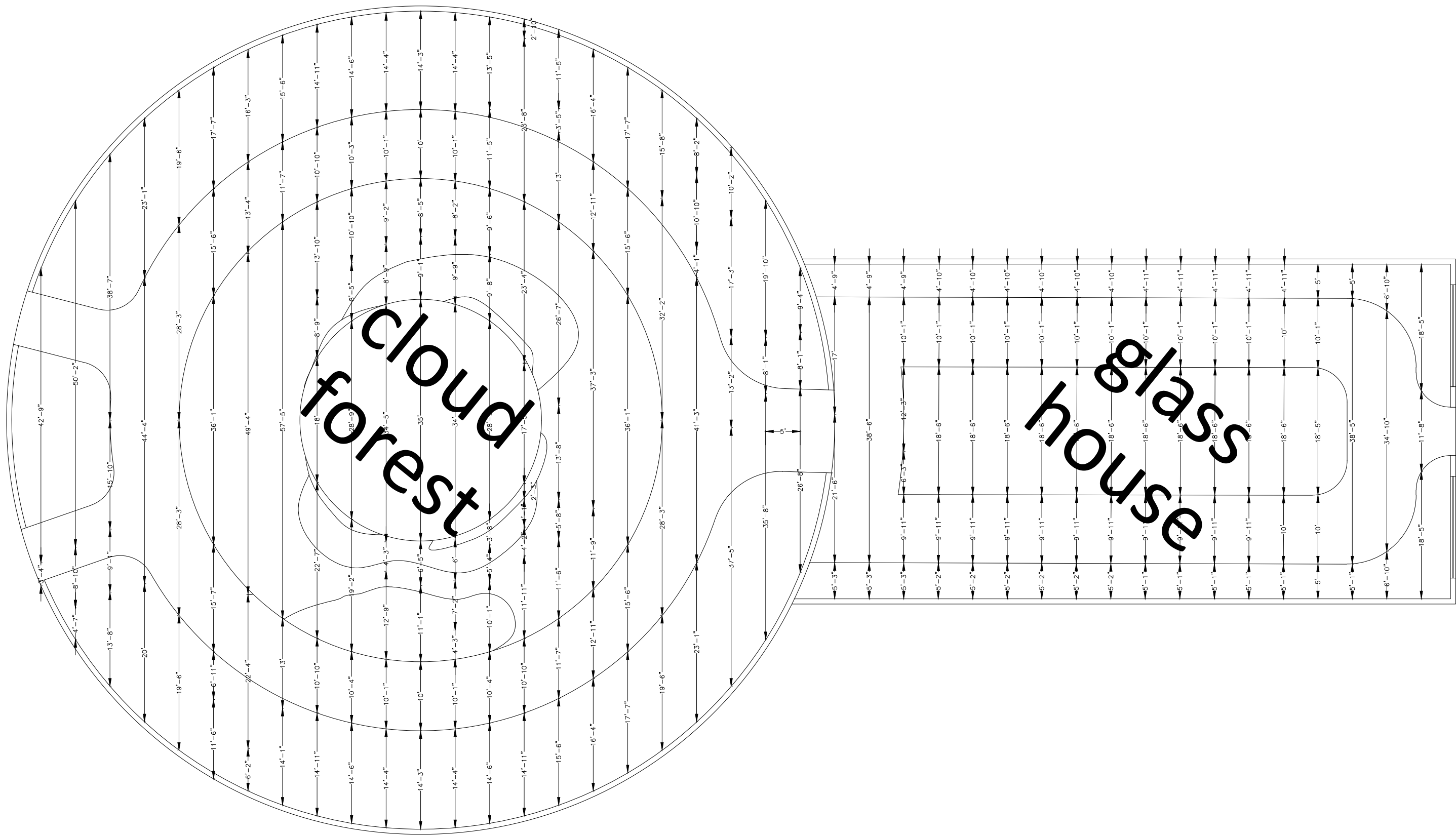
COVERED AREA

SCALE

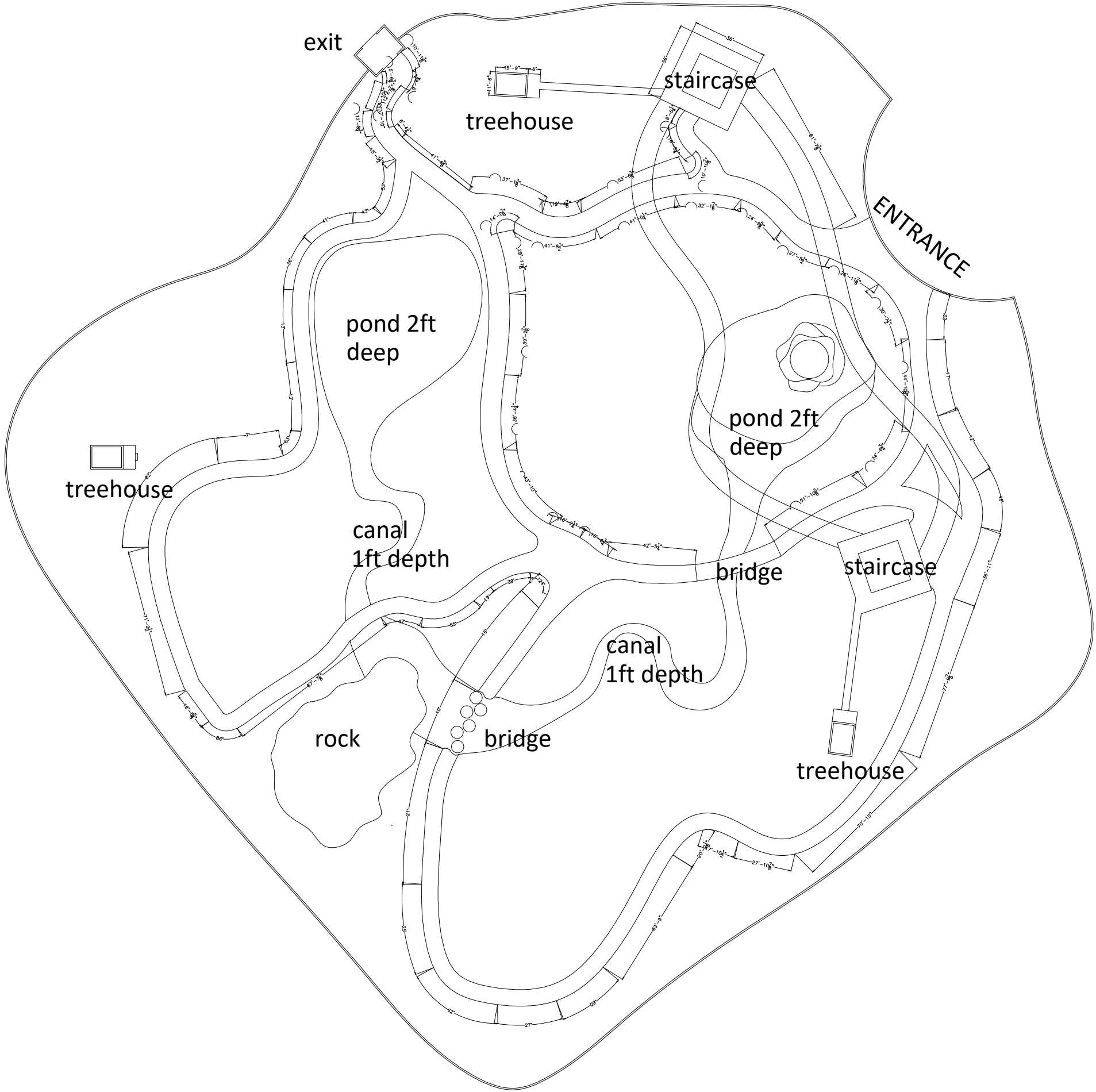
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DATE

09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE GLASS HOUSE AND CLOUD FOREST WORKING PLAN	ORIENTATION	DWG. NO. A-01	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA
			AVIARY DOME AND PATHWAY		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:	DATE 09 JULY 2025



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

AVIARY PATH WAY WORKING
AVIARY DOME AND PATHWAY

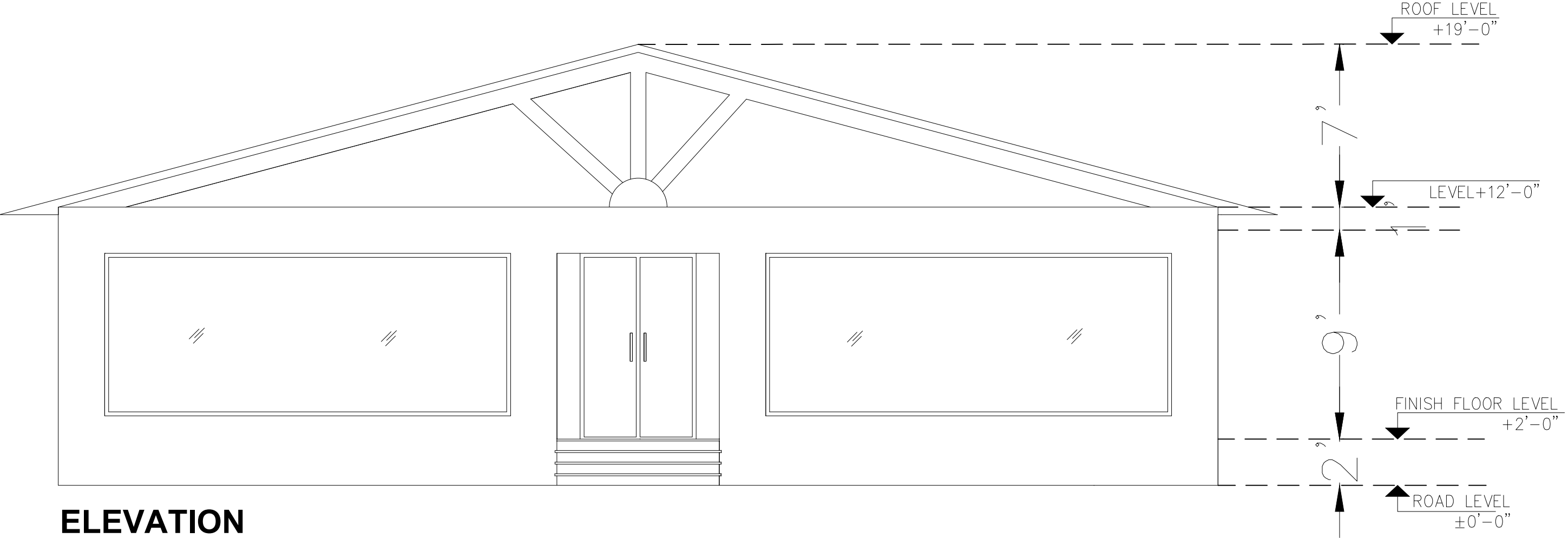
ORIENTATION

DWG. NO.
A-01
SHEET NO.

DESIGNED BY:
DRAWN BY:
CHECKED BY:

AR.ABDULLAH USMAN
SHEHROZ ABBASI

COVERED AREA
SCALE
DATE
09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					A-01	DRAWN BY:	SHEHROZ ABBASI	SCALE
			AVIARY DOME AND PATHWAY			CHECKED BY:		N.T.S
								DATE
								09 JULY 2025

GREEN AREA

K2 STONE

TRACK

8'

SAND FILING

GRAVEL

EARTH FILING

CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

TRACK SECTION

AVIARY DOME AND PATHWAY

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

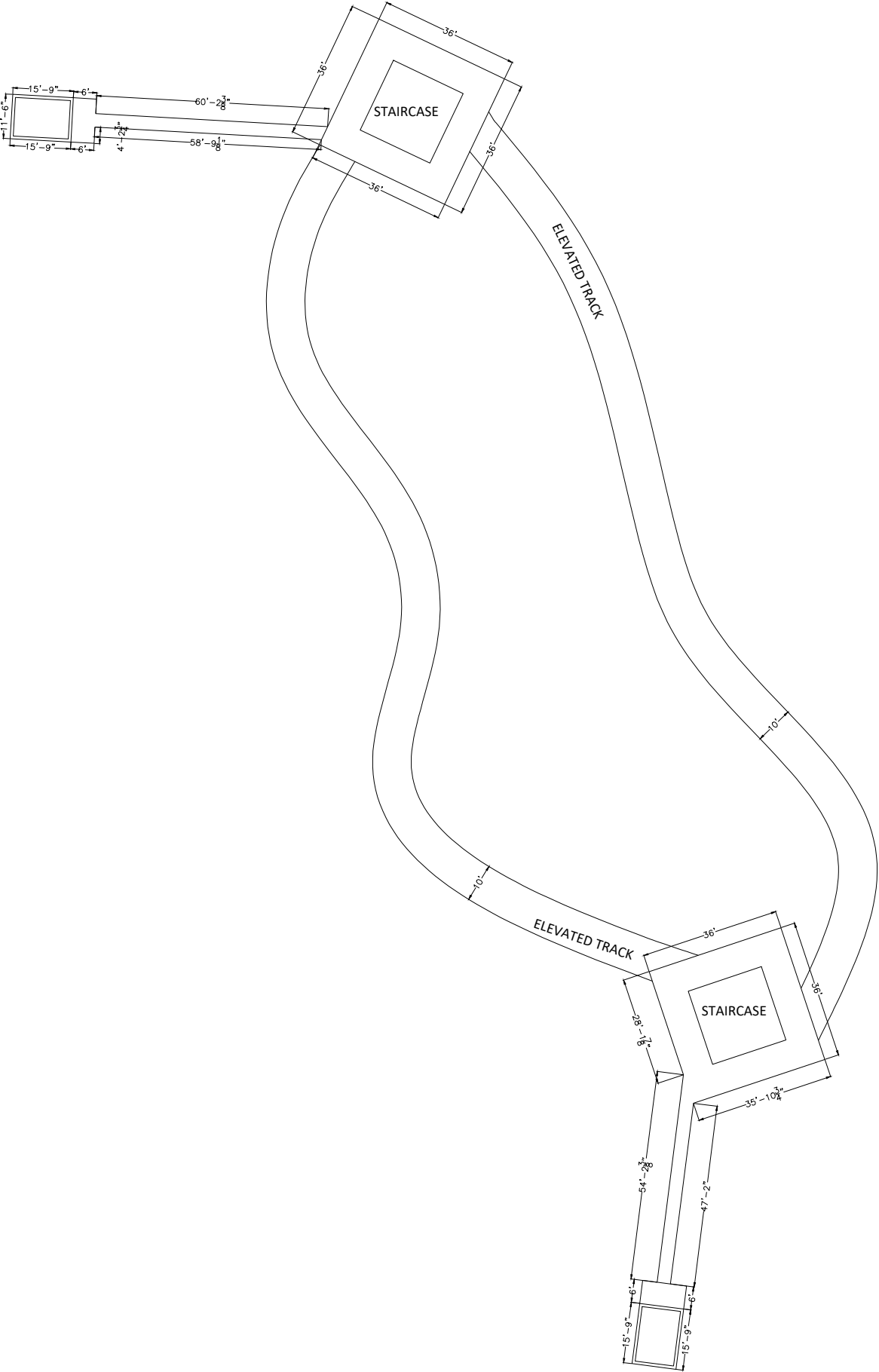
COVERED AREA

SCALE

N.T.S

DATE

09 JULY 2025



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

ELEVATED TRACK

AVIARY DOME AND PATHWAY

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

SCALE

N.T.S

DATE

09 JULY 2025



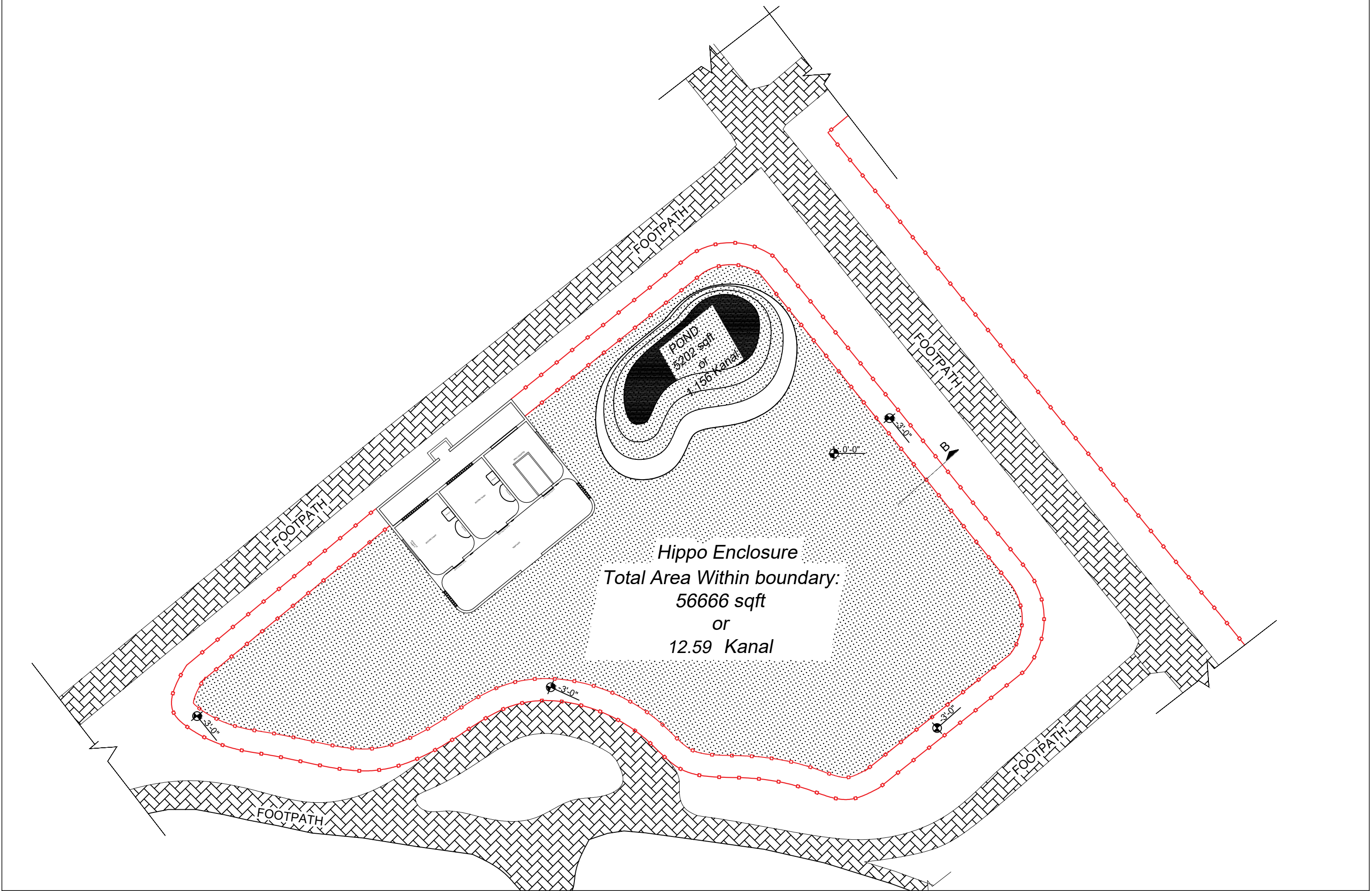
PROPOSED BUILDING FOR
HIPPO INDOORWORKING DRAWINGS
JULY , 2025



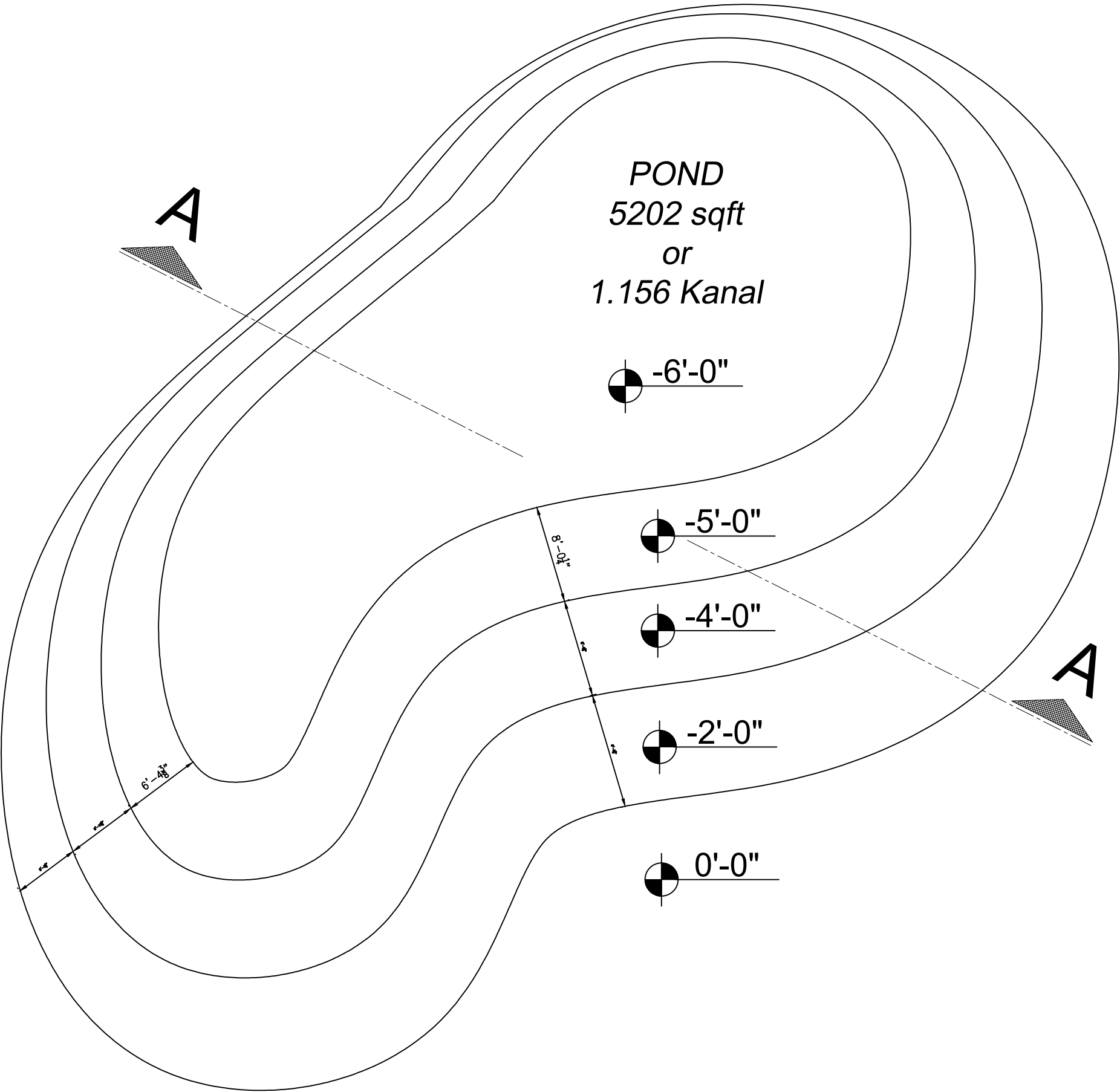
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE 3D VIEW	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE N.T.S
			VIEW 1			CHECKED BY:		DATE 09 JULY 2025

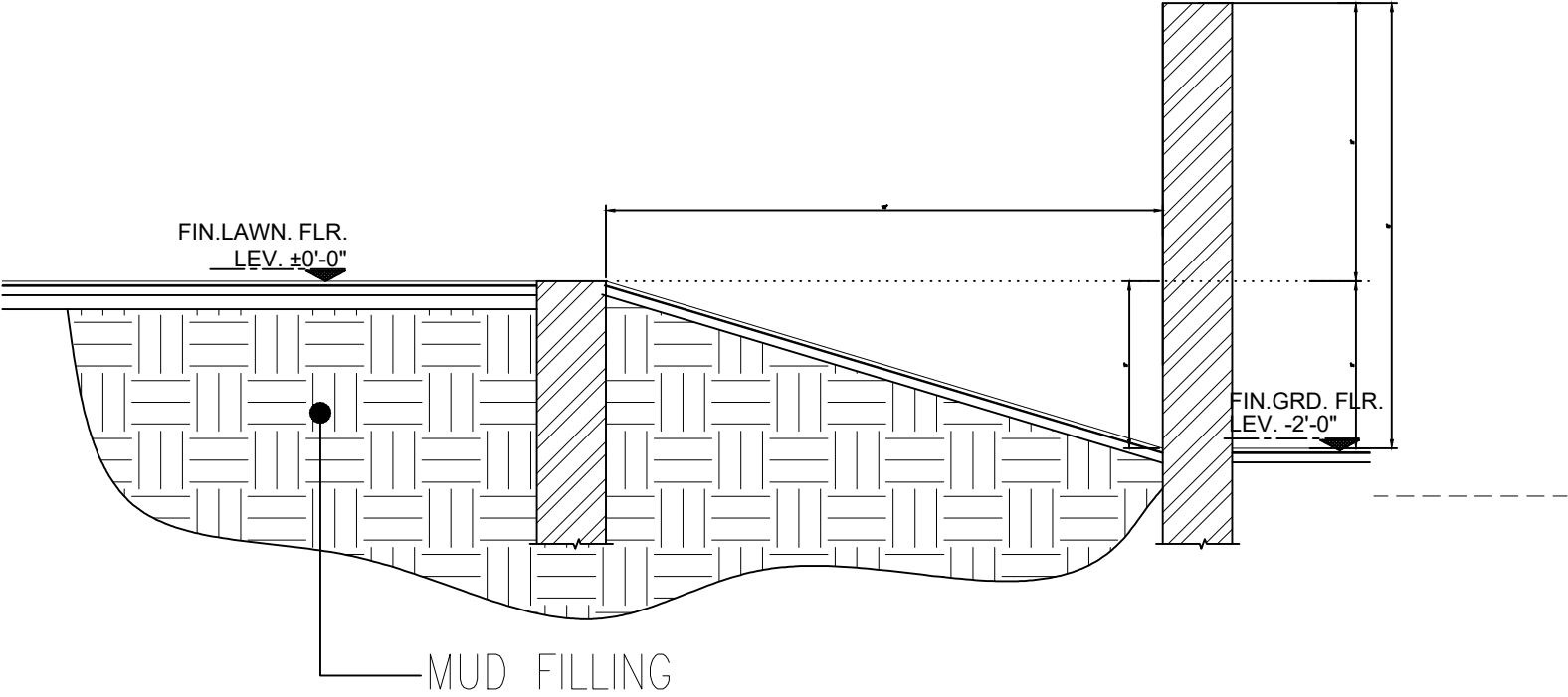


CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
			3D VIEW			DRAWN BY:	SHEHROZ ABBASI	SCALE	
					VIEW 2				
						CHECKED BY:		DATE	
								09 JULY 2025	

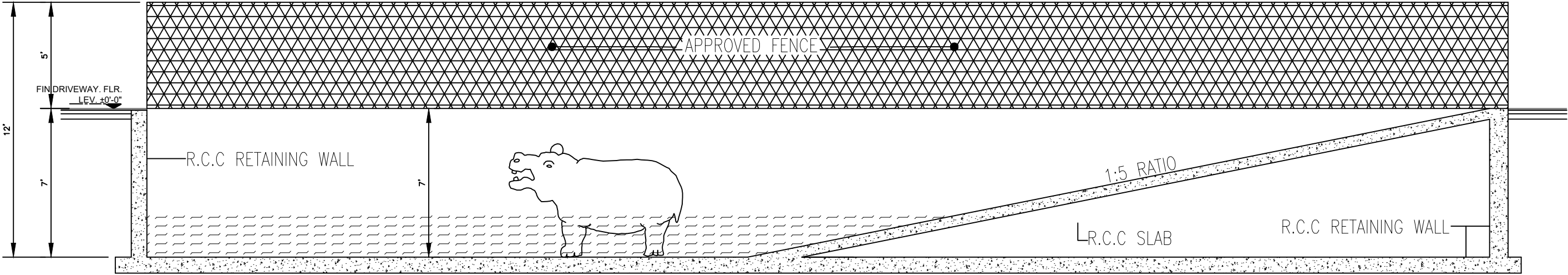


CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY ,LAHORE Ph. No. 03170000220 e.mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE ARCHITECTURAL DRAWING		ORIENTATION	DWG. NO. A-01	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA 5548 SFT
			SHEET NO.	DRAWN BY: SHEHROZ ABBASI		SCALE N.T.S		
				CHECKED BY:		DATE 09 JULY 2025		
			MASTER PLAN					





SECTION B-B



OUT DOOR POND
SECTION A-A

CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

ARCHITECTURAL DRAWING

MASTER PLAN

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

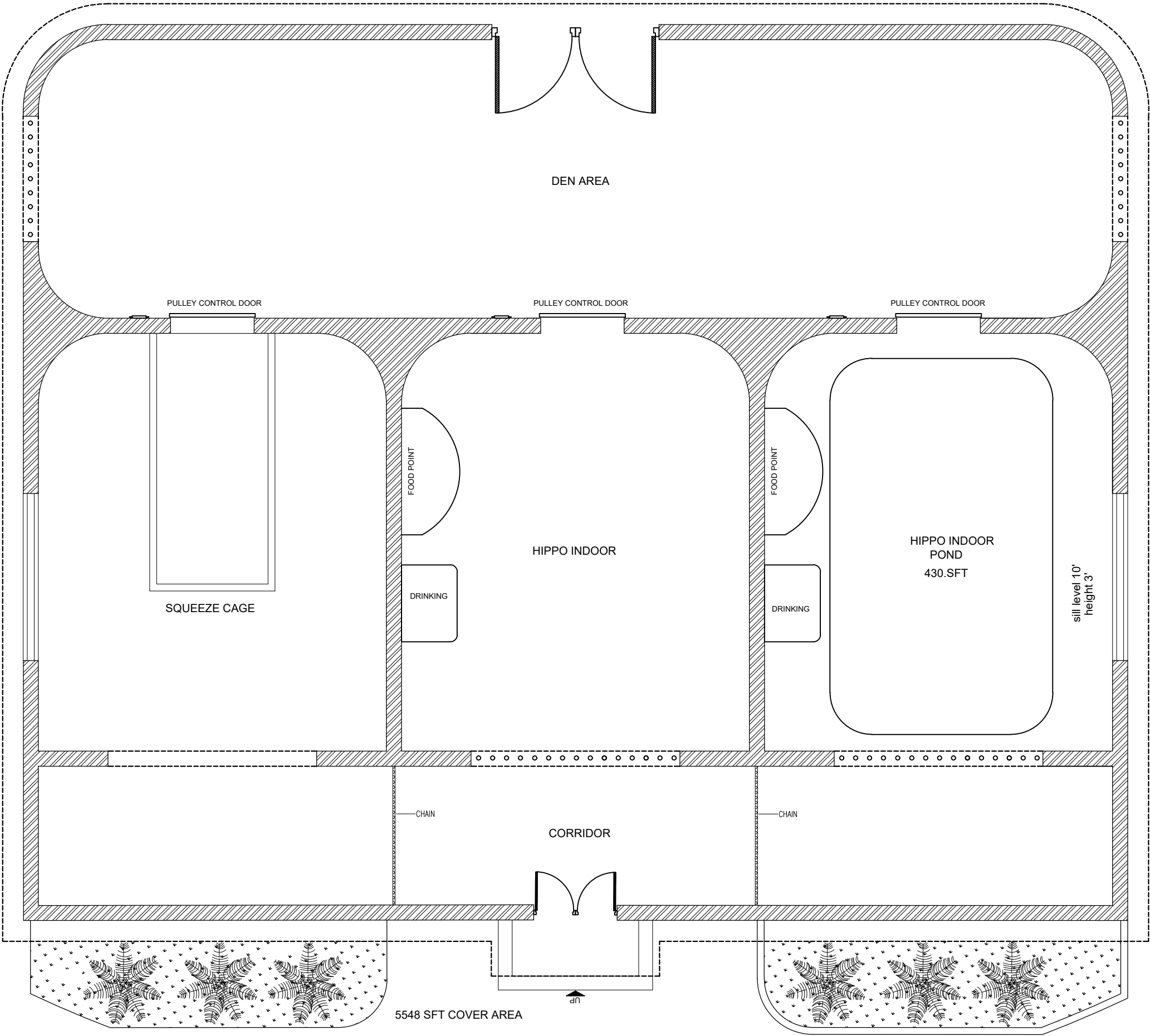
5548 SFT

SCALE

N.T.S

DATE

09 JULY 2025



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

ARCHITECTURAL DRAWING

HIPPO INDOOR

ORIENTATION

DWG. NO.

A-02

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

5548 SFT

SCALE

N.T.S

DATE

09 JULY 2025

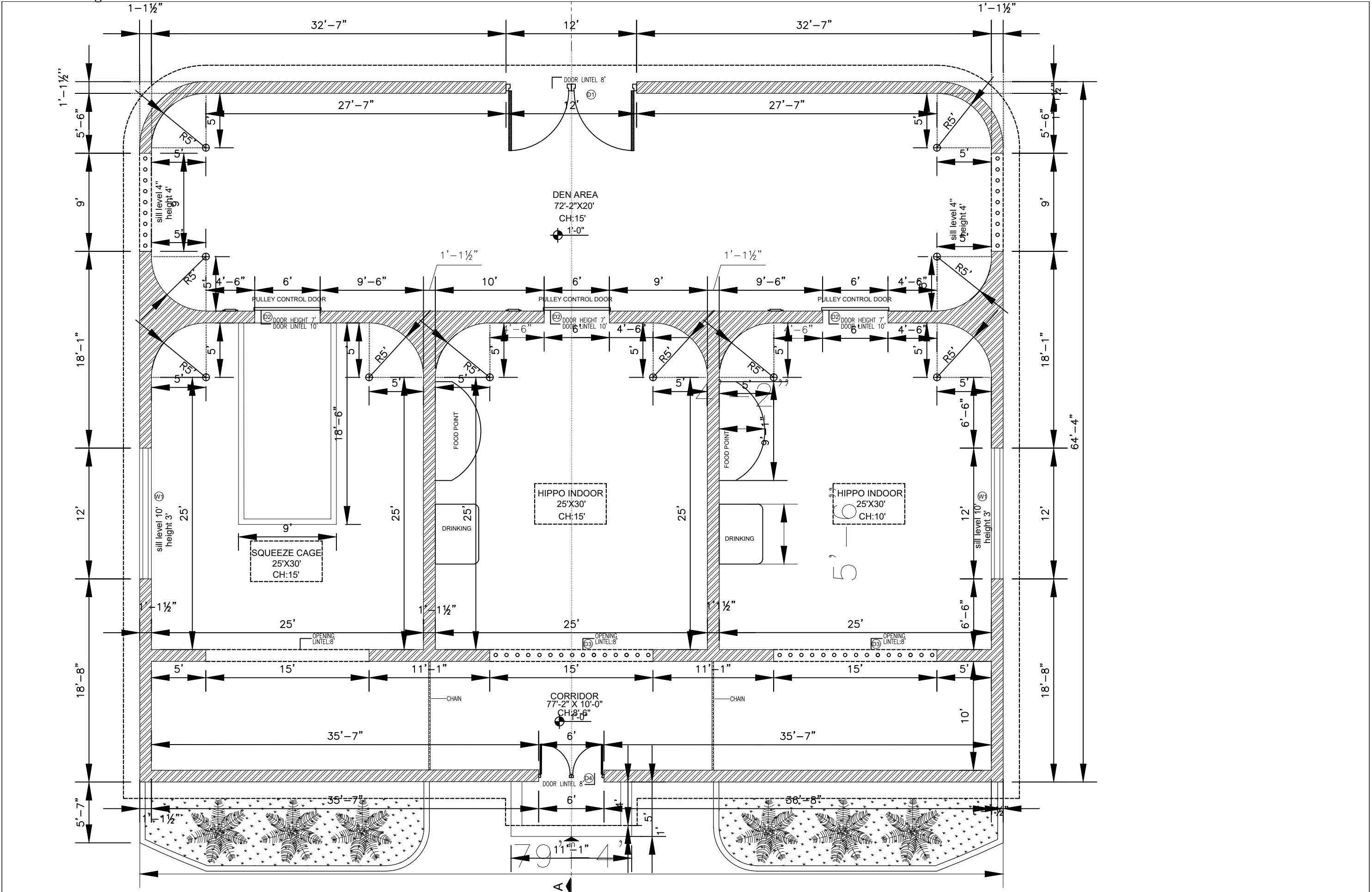
TYPICAL NOTES FOR GROUND & FIRST FLOOR

- * ALL DOOR, WINDOW & OPENING LINTELS BOTTOM SHOULD BE AT 7'-0"/3'-6" FROM F.F.L.EXCEPT MENTIONED
- * GROUND FLOOR CLEAR HT=15'-0" EXCEPT MENTIONED
- * ALL KITCHEN 6" Ø PVC PIPE TOP 3" BELOW FROM SOFFIT OF SLAB FOR HOOD EXHAUST
- * FOLLOW ELEVATIONS, SECTIONS AND WINDOWS SCHEDULE FOR OTHER WINDOWS SILL & HT.

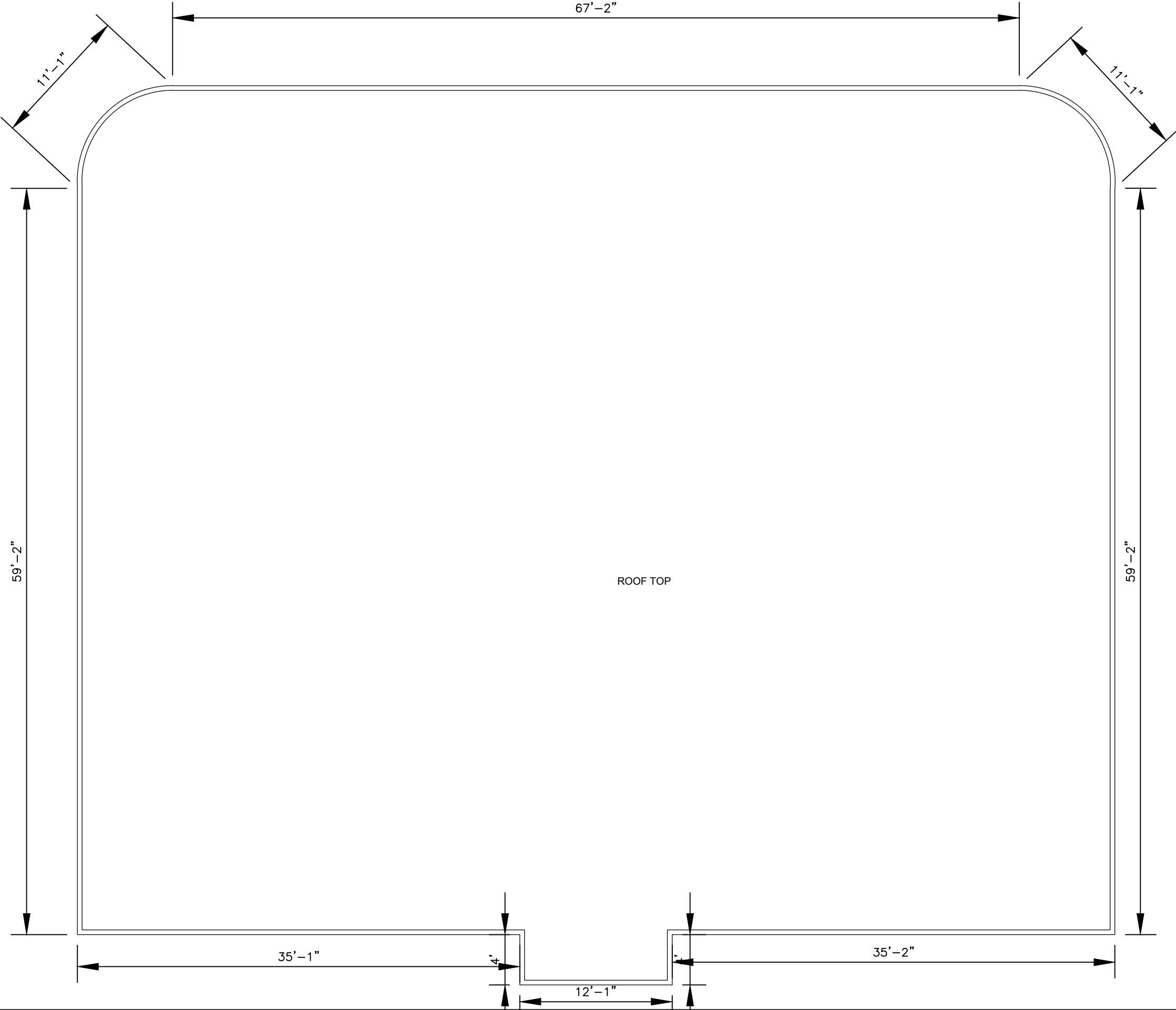
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e.mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					A-03			5548 SFT
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
			HIPPO HOUSE			CHECKED BY:		N.T.S
								DATE
								09 JULY 2025

SCHEDULE OF D/WINDOWS.

TYPE	SIZE(WXH)	SILL	DESCRIPTION
D1	12'-0"x8'-0"	0'-0"	MS STEEL
D2	6'-0"x7'-0"	0'-0"	MS STEEL
D3	15'-0"x8'-0"	0'-0"	IRON RODS
D4	6'-0"x8'-0"	0'-0"	MS STEEL
W1	12'-0"x3'-0"	10'-0"	IRON RODS



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					A-03			5548 SFT			
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE			
						CHECKED BY:		N.T.S			
WILDLIFE & PARKS DEPARTMENT			SAFRAI ZOO LAHORE		WORKING DRAWING		HIPPO HOUSE				
							DATE	09 JULY 2025			



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

WORKING DRAWING

HIPPO HOUSE

ORIENTATION

DWG. NO.

A-03

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

5548 SFT

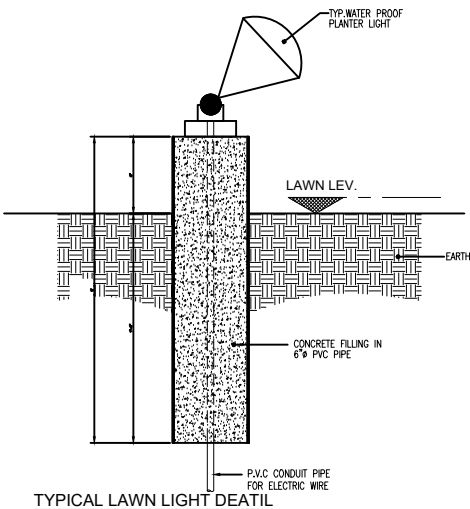
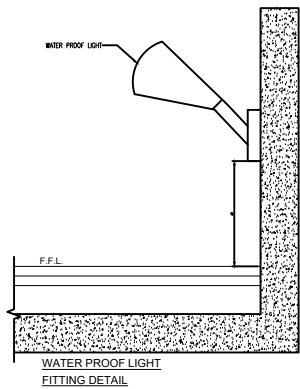
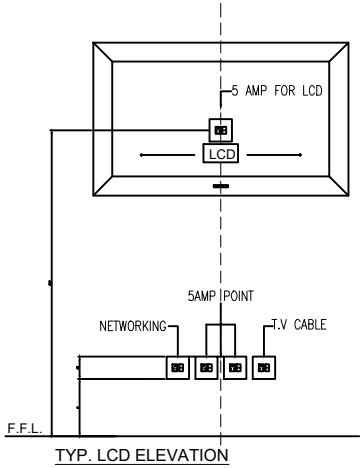
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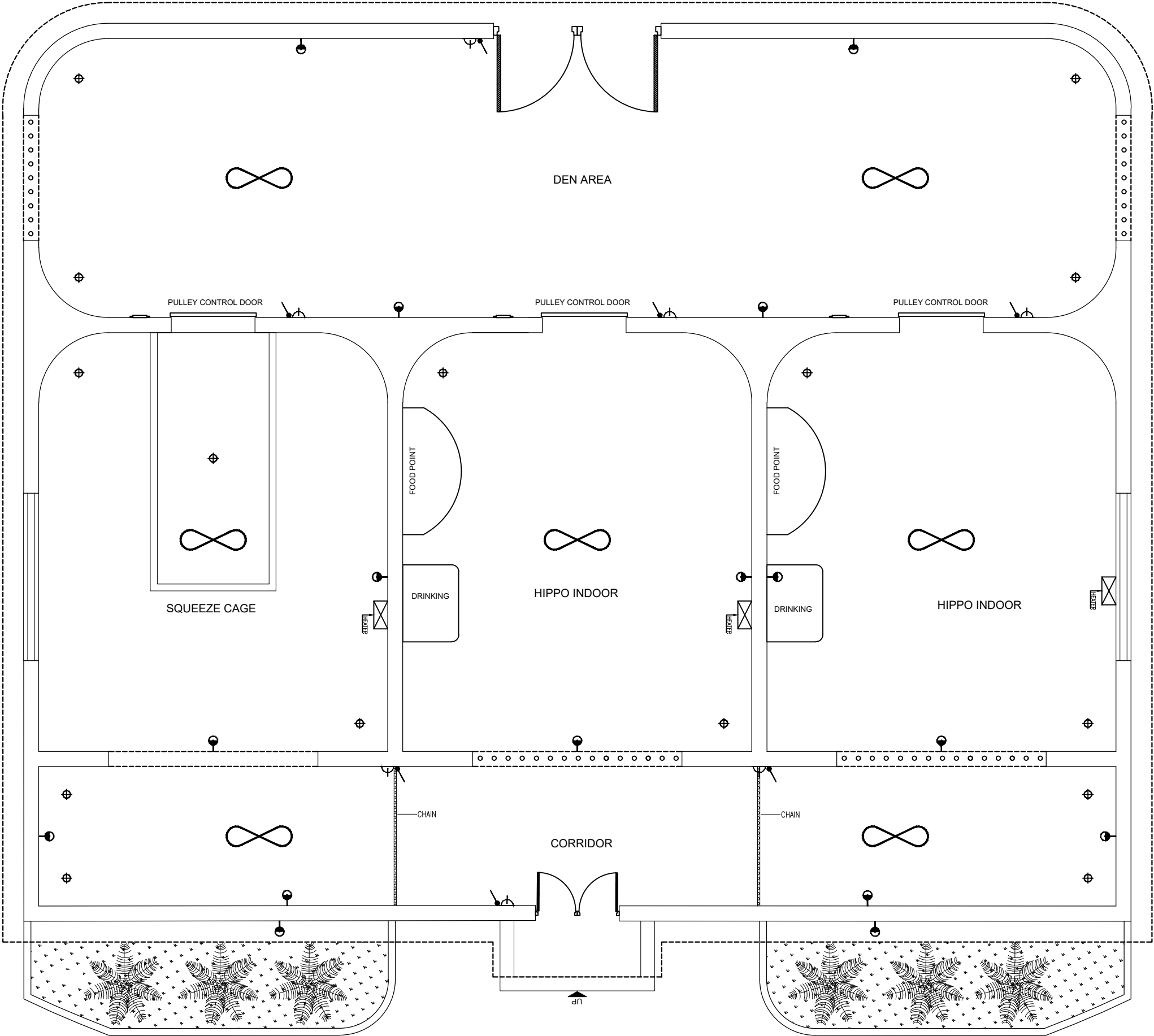
N.T.S

DATE

09 JULY 2025

LEGEND FOR ELECTRICAL		
SYMBOL	DESCRIPTION	MOUNTING HT.
	5 Amp: SINGLE POLE FLUSH TYPE SWITCH BOARD	3'-6"
	5 Amp: 2 WAY FLUSH TYPE SWITCH POINT	3'-6"
	CEILING LIGHT POINT	
	WALL BRACKET LIGHT POINT	7'-6"
	EXTERNAL WALL BRACKET WATER PROOF LIGHT	7'-6"
	HANGING CORNER LIGHT POINT	
	WATER PROOF PLANT LIGHT POINT	1'-0"
	GARDEN LIGHT POINT	3'-6"
	MOTION DETECTOR LIGHT	3'-6"
	FACADE LIGHT	0'-6"
	SHANDLEAR POINT	
	TUBE LIGHT UNDER KITCHEN WALL CABINET	
	MAIN GATE LIGHT POINT	
	TRACK LIGHT	7'-6"
	CCTV CAMERA WITH 5 AMP: LIGHT PLUG	8'-6"
	T.V CABLE POINT	0'-9"
	CCTV CAMERA CONTROL POINT	0'-9"
	TELEPHONE / INTERCOM PLUG POINT	0'-9"
	NETWORKING POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 5Amp: WALL SOCKET PLUG POINT	3'-6"
	3-PIN 15Amp: WALL SOCKET PLUG POINT	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR U.G.W.T MOTOR PUMP	0'-9"
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR WATER COLLECTION CHAMBER SUBMERSIBLE PUMP	
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T AUTOMATIC SWITCH FOR WATER PUMP	1'-0" DN. FROM O.H.W.T SLAB
	3-PIN 15Amp: WALL SOCKET PLUG POINT FOR O.H.W.T PRESSURE PUMP	2'-0" UP. FROM FIN. ROOF LEV.
	BELL PUSH POINT	3'-6"
	BUZZER POINT	8'-0"
	CEILING FAN POINT WITH REGULATOR	
	WALL BRACKET FAN POINT	7'-6"
	EXHAUST FAN POINT	
	SPLIT TYPE A/C UNIT	7'-6" (BOTTOM)
	MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	SUB-MAIN DISTRIBUTION BOARD	4'-6" (BOTTOM)
	TELEPHONE / CABLE D.B	0'-9" (BOTTOM)
	EARTH SET COMPLETE	
	LIGHT WIRING	
	POWER PLUG WIRING	
	INCOMING MAIN CABLE	
	UNDER GROUND WIRING	





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Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

ELECTRICAL DRAWING

HIPPO HOUSE

ORIENTATION

DWG. NO.

E-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

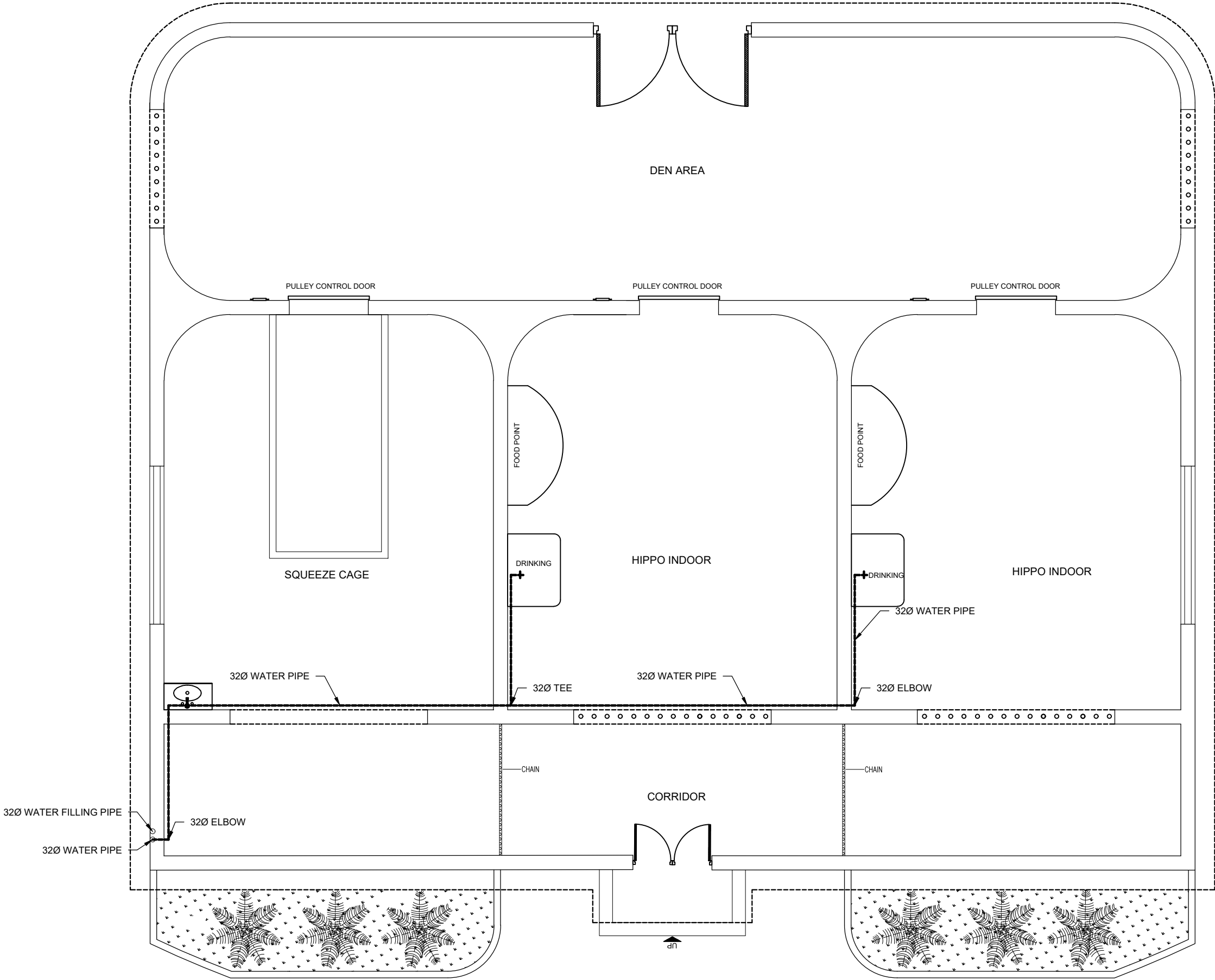
5548 SFT

SCALE

N.T.S

DATE

09 JULY 2025



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

WATER SUPPLY

HIPPO HOUSE

ORIENTATION

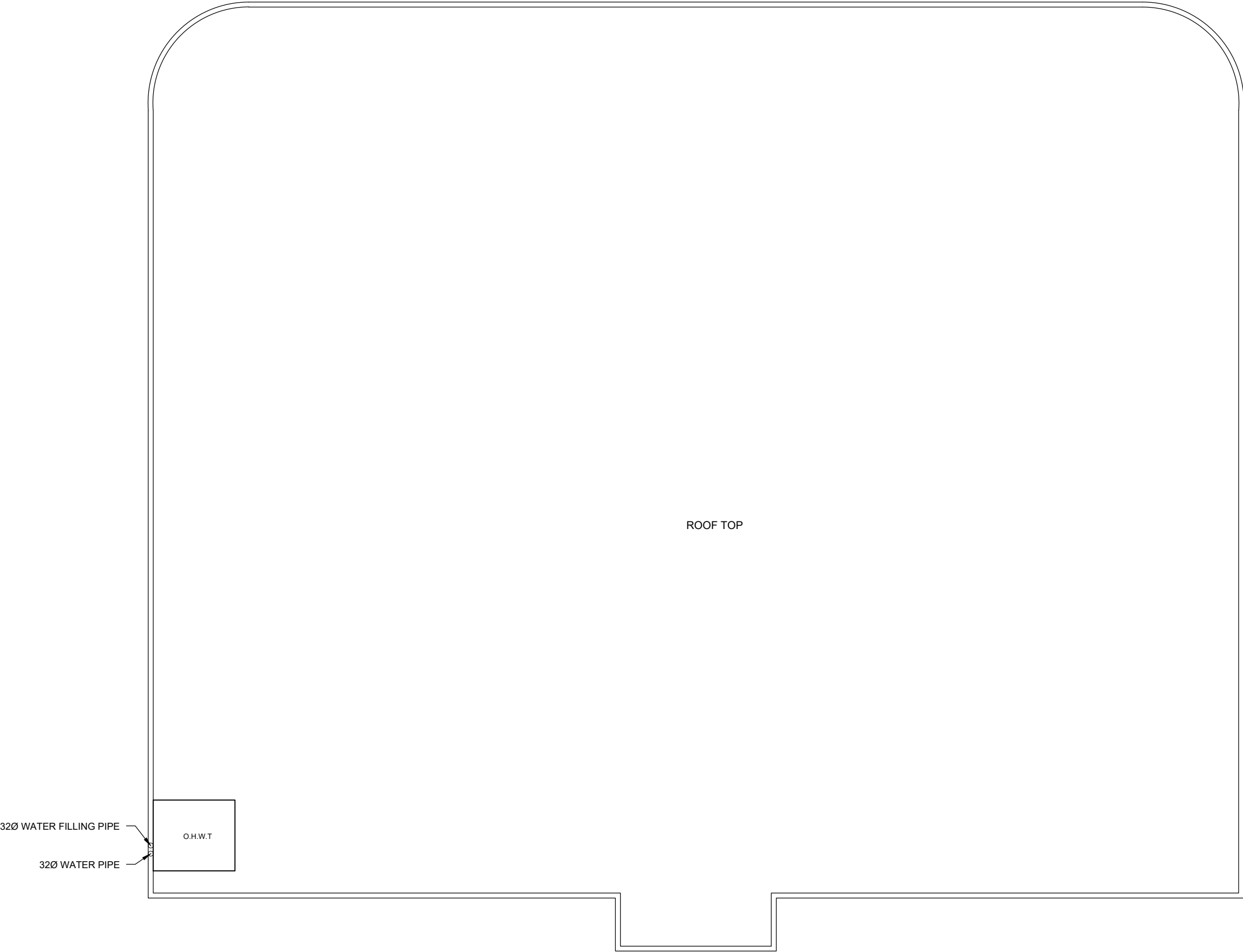
DWG. NO.

PH-01

SHEET NO.

DESIGNED BY:	AR.ABDULLAH USMAN
DRAWN BY:	SHEHROZ ABBASI
CHECKED BY:	

COVERED AREA	5548 SFT
SCALE	N.T.S
DATE	09 JULY 2025



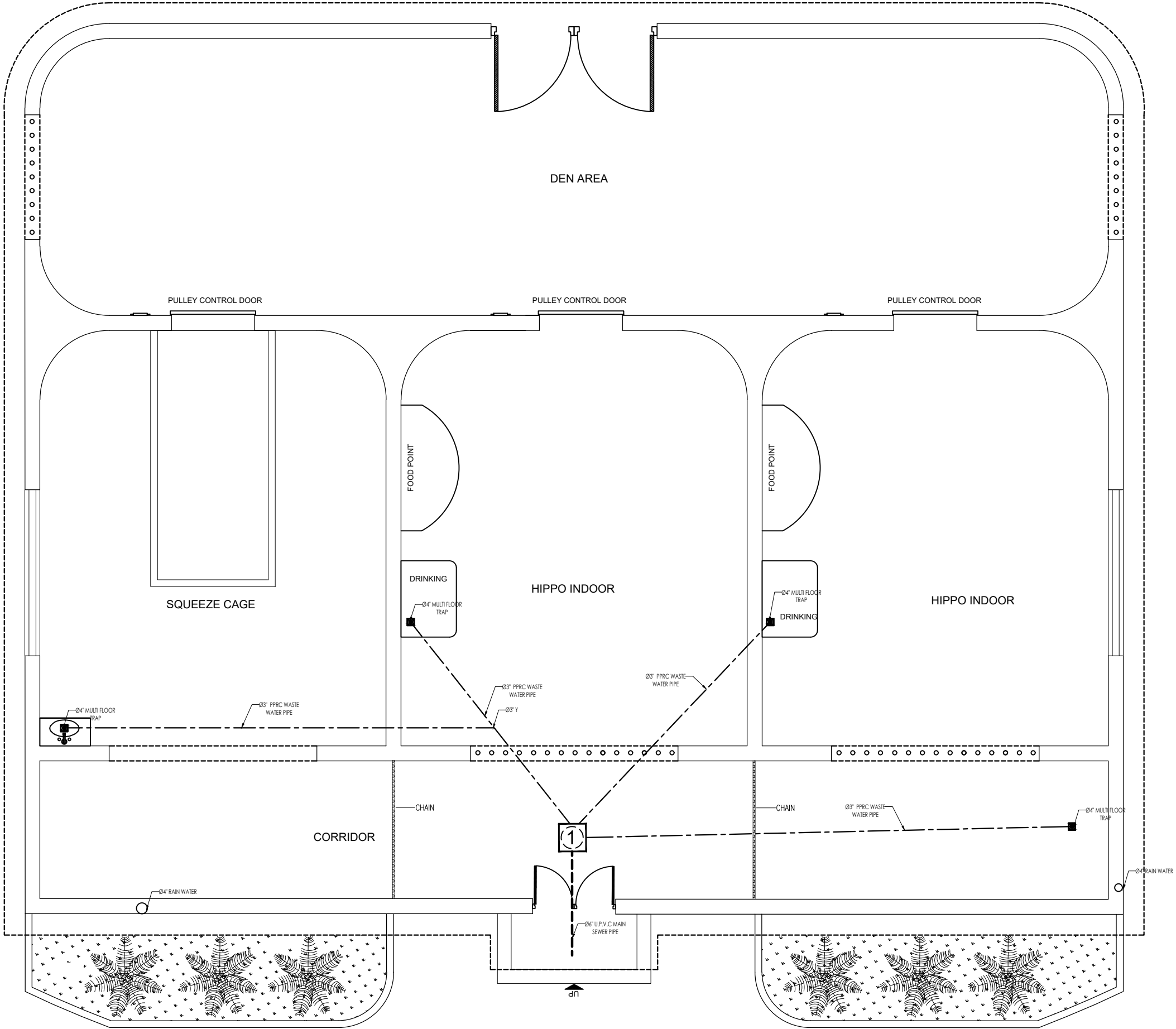
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY , LAHORE Ph. No. 03170000220 e.mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					A-05	DRAWN BY:	SHEHROZ ABBASI	5548 SFT
					SHEET NO.	CHECKED BY:		N.T.S
								DATE
								09 JULY 2025
WILDLIFE & PARKS DEPARTMENT		SAFRAI ZOO LAHORE		WATER SUPPLY		HIPPO HOUSE		

SANITATION LEGEND

- 1- MANHOLE 2' X 2'
- 2- P- TRAP
- 3- 4" Ø MULTI FLOOR TRAP
- 4- BOTTLE TRAP
- 5- 4" Ø U.P.V.C. SEWER & VENT PIPE.
- 6- 6" Ø U.P.V.C. MAIN SEWER PIPE
- 7- 4" Ø U.P.V.C. SEWER & VENT PIPE FROM F/F
- 8- 3" Ø U.P.V.C. WASTE WATER PIPE
- 9- 3" Ø U.P.V.C. WASTE WATER PIPE FROM F/F
- 10- 2" Ø U.P.V.C. WASTE WATER PIPE
- 11- 8" Ø U.P.V.C. MAIN SEWER PIPE
- 12- 4" Ø U.P.V.C. RAIN WATER PIPE
- 13- 1/2" Ø P.P.R.C. COLD WATER PIPE
- 14- 1/2"Ø P.P.R.C. HOT WATER PIPE
- 15- SINK DRAINAGE.
- 16- P-TRAP WITH 6"x6" JALI FOR A/C DRAIN

Annexure23 - Drawings

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, ALBERT & ACHARYA SOCIETY, LAHORE Ph. No. 03730000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE SEWER LEGEND	ORIENTATION	DWG. NO. PH-01	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA 5548 SFT
			HIPPO DRAWING		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
					CHECKED BY:	DATE 09 JULY 2025	



CONSULTANT


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AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

SEWER DRAWING

HIPPO HOUSE

ORIENTATION

DWG. NO.

PH-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

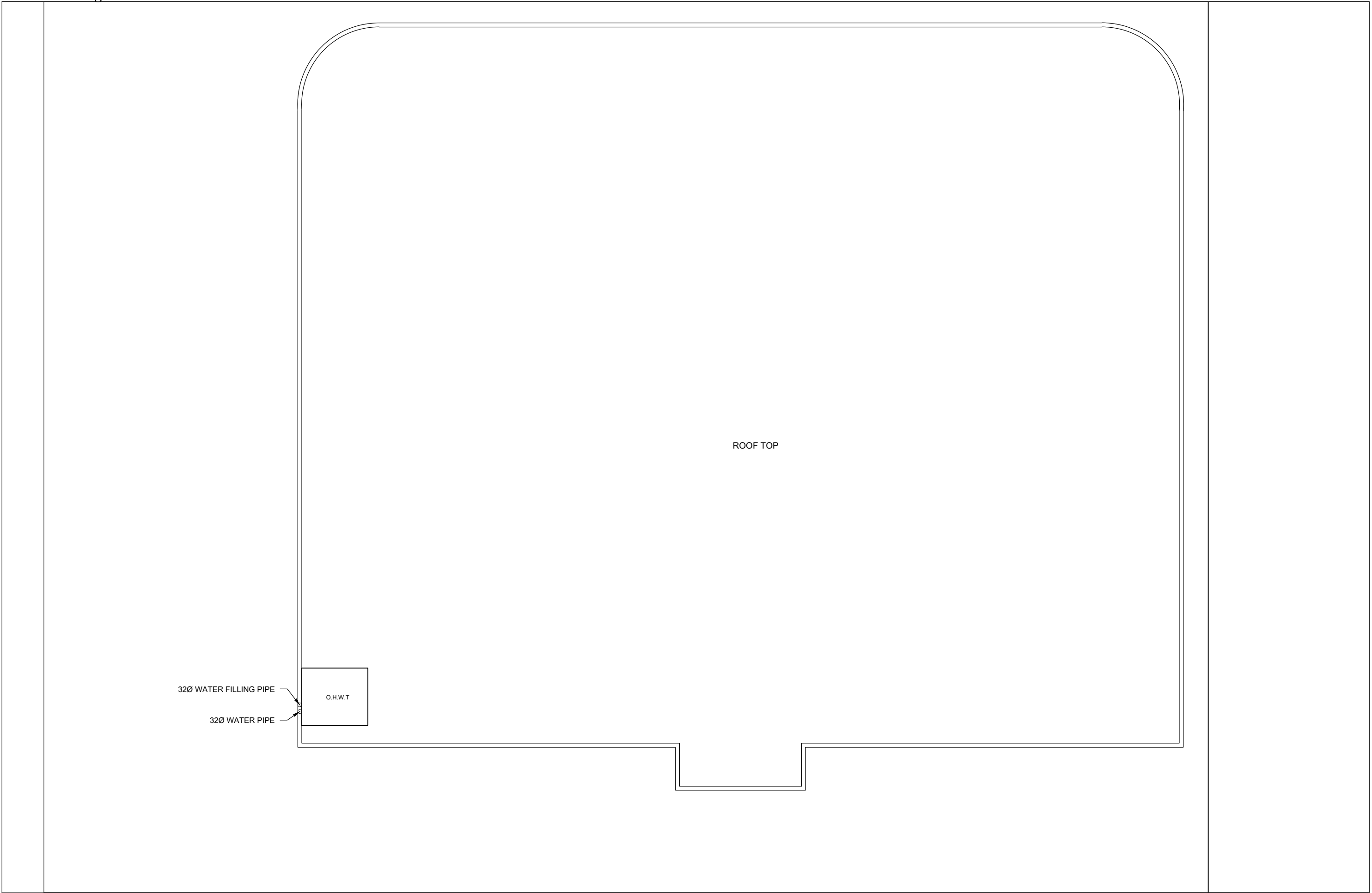
5548 SFT

SCALE

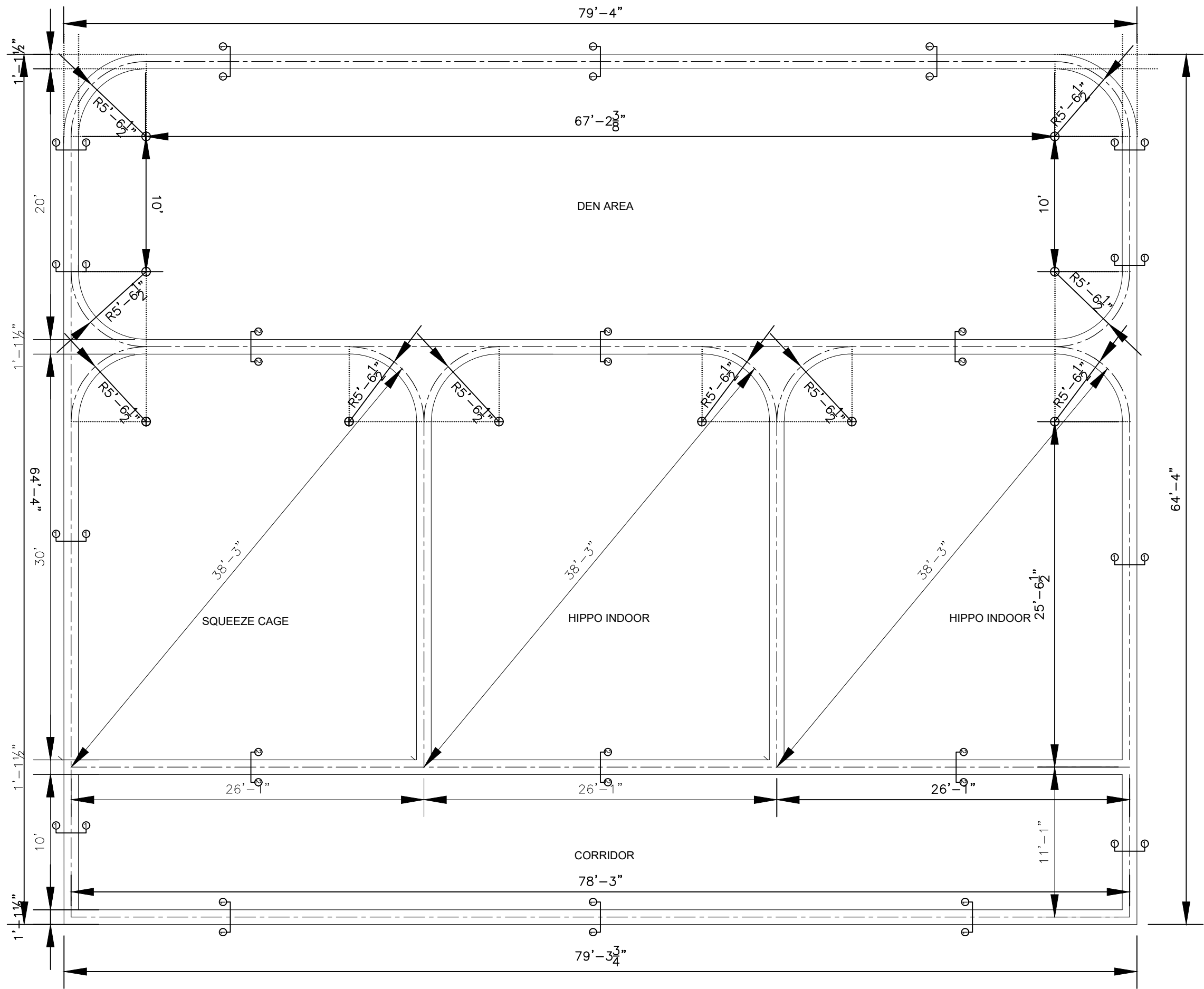
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DATE

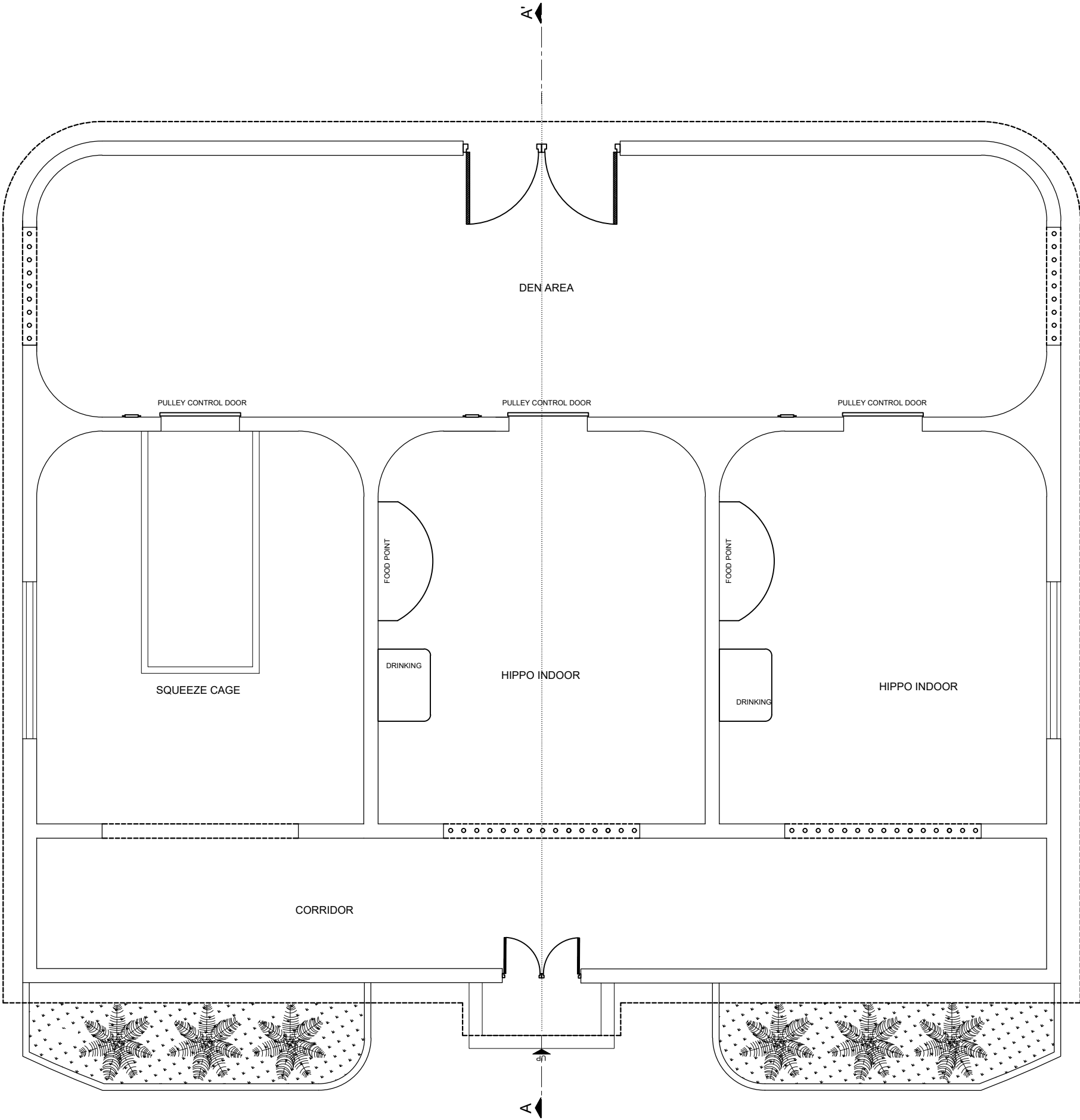
09 JULY 2025

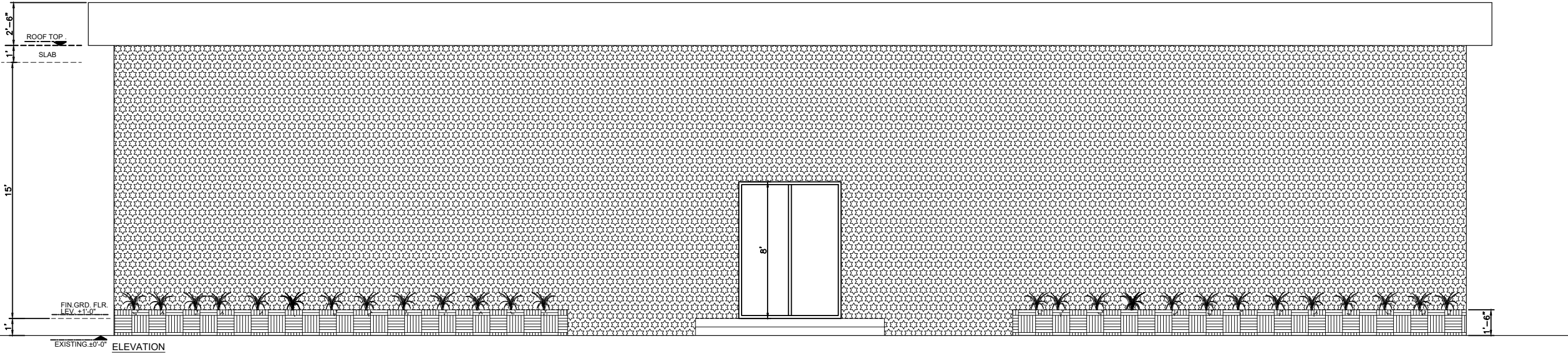


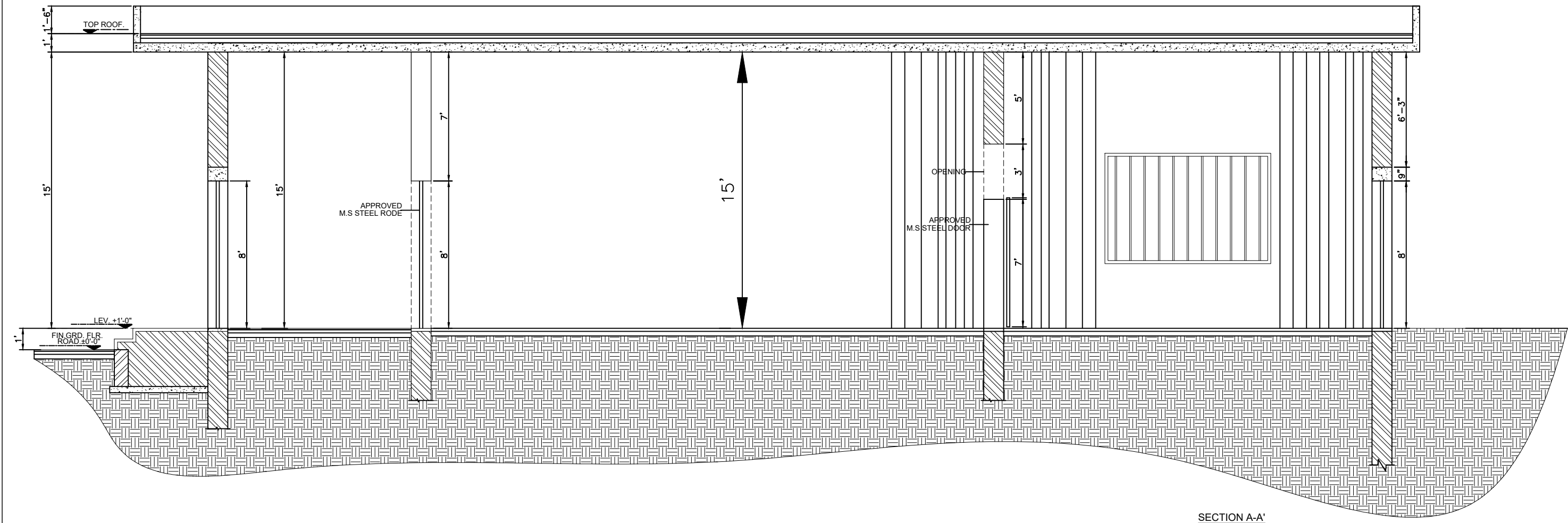
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph: No. 03179000220 e.mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
					PH-01	DRAWN BY:	SHEHROZ ABBASI	5548 SFT	
					SHEET NO.	CHECKED BY:		N.T.S	
								DATE	
WILDLIFE & PARKS DEPARTMENT			SAFRAI ZOO LAHORE		SEWER DRWING		HIPPO HOUSE		09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFRAI ZOO LAHORE	TITLE EXCAVATION DRAWING	ORIENTATION	DWG. NO. A-04	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA 5548 SFT
			HIPPO HOUSE		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:	DATE 09 JULY 2025







SECTION A-A'

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AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e.mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFRAI ZOO LAHORE

TITLE

SECTION A-A'
HIPPO HOUSE

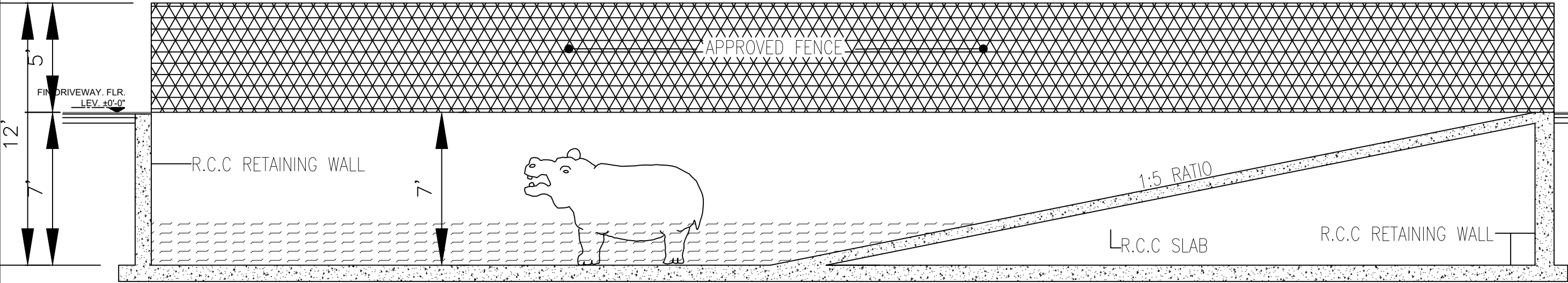
ORIENTATION

DWG. NO.
A-05
SHEET NO.

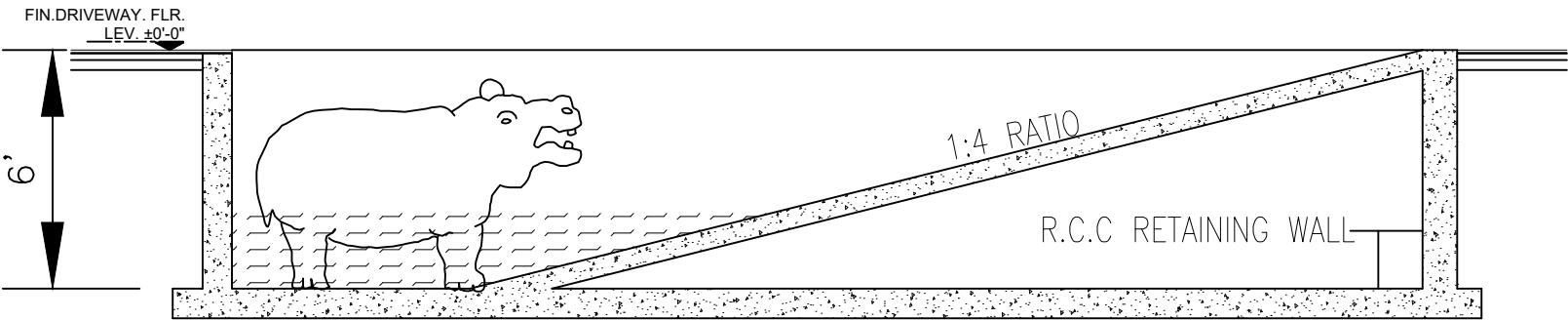
DESIGNED BY:
DRAWN BY:
CHECKED BY:

AR.ABDULLAH USMAN
SHEHROZ ABBASI

COVERED AREA
5548 SFT
SCALE
N.T.S
DATE
09 JULY 2025



OUT DOOR POND
SECTION B-B



INDOOR POND
SECTION B-B

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY , LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
					A-05	DRAWN BY:	SHEHROZ ABBASI	5548 SFT	
					SHEET NO.	CHECKED BY:		N.T.S	
					WILDLIFE & PARKS DEPARTMENT			SAFRAI ZOO LAHORE	
									09 JULY 2025



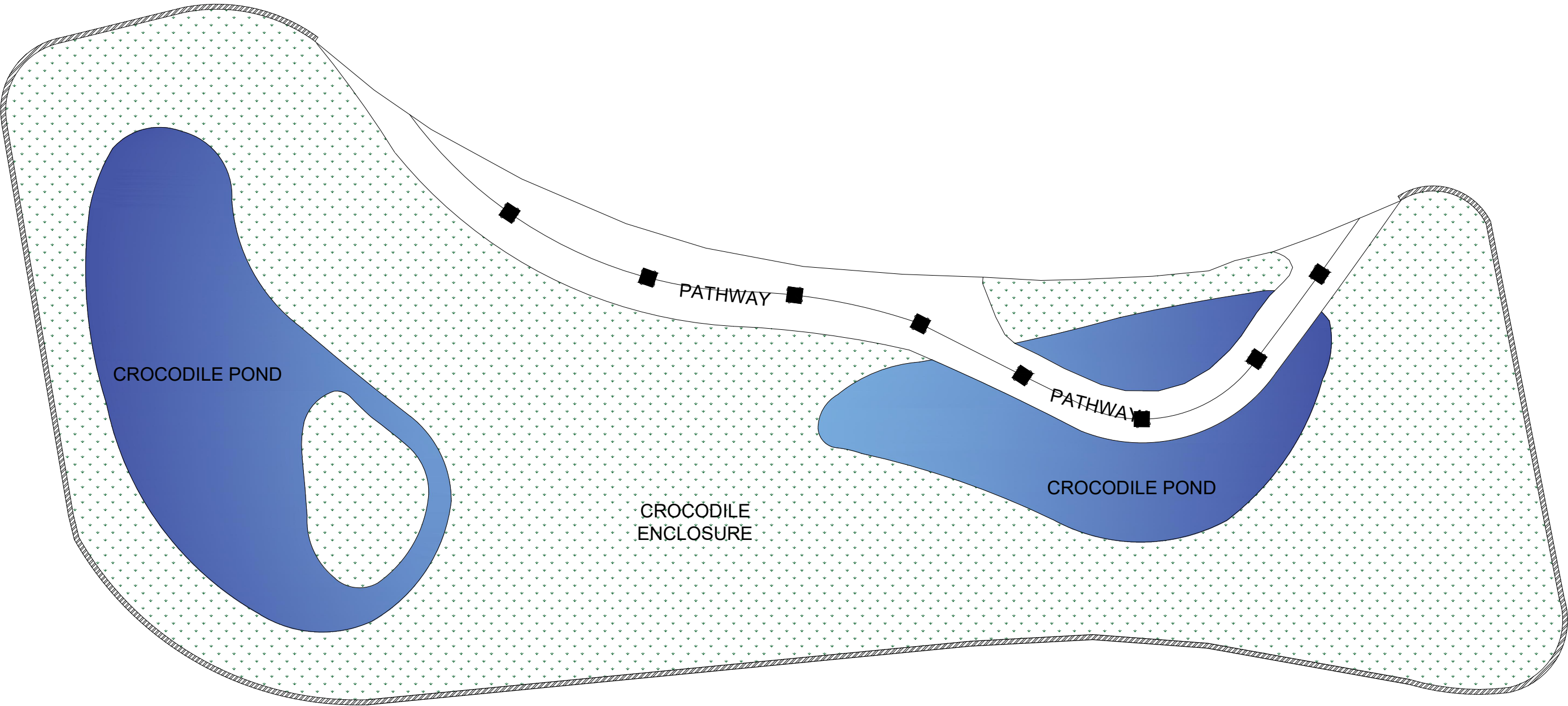
PROPOSED BUILDING FOR
CROCODILE HOUSING WORKING DRAWINGS
JULY, 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
			3D VIEW						
			VIEW 1			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	N.T.S
							CHECKED BY:		DATE



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					3D VIEW				DRAWN BY:	SHEHROZ ABBASI	SCALE
					VIEW 2			SHEET NO.	CHECKED BY:		N.T.S
									09 JULY 2025		



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

CROCODILE POND
ARCHITECTURE PLAN

ORIENTATION

DWG. NO.

SHEET NO.

DESIGNED BY:

DRAWN BY:

CHECKED BY:

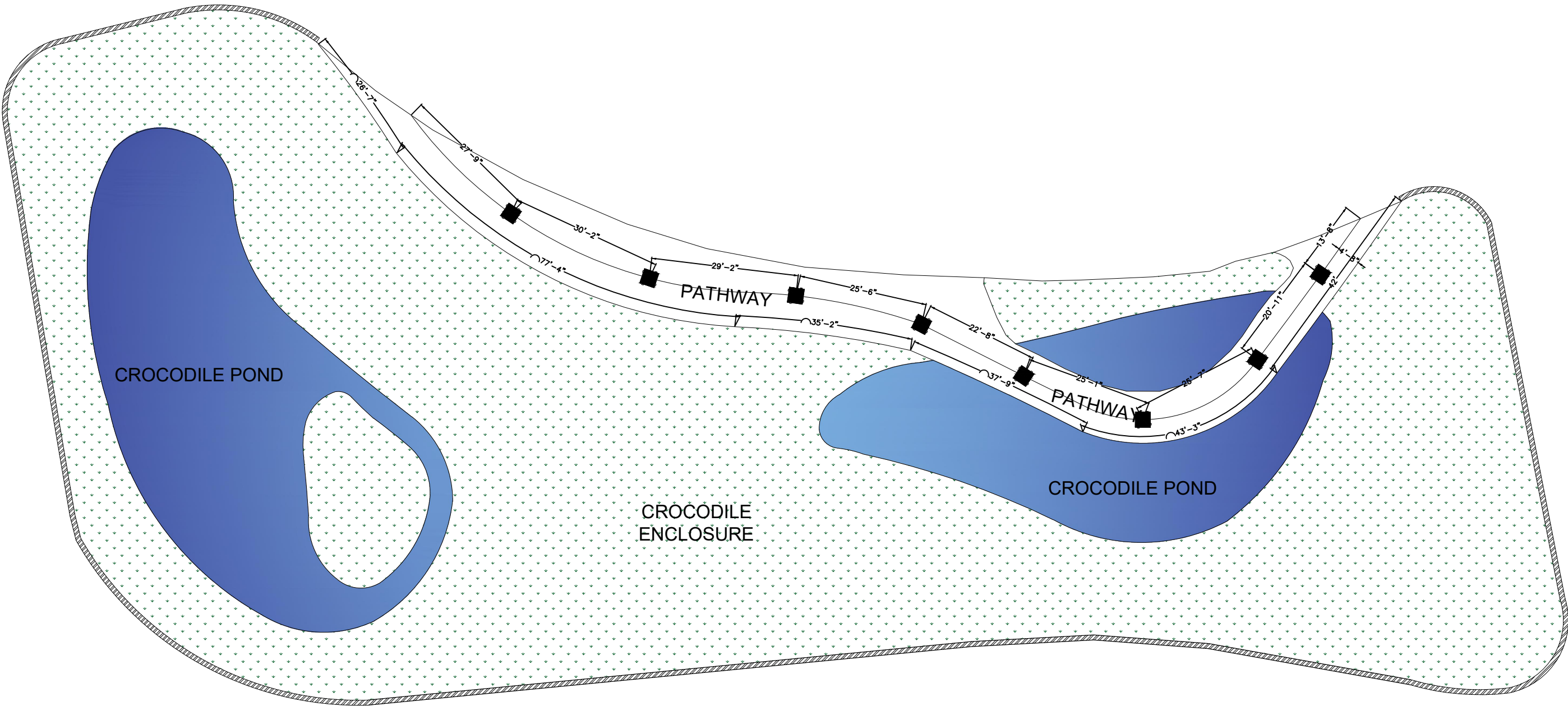
AR.ABDULLAH USMAN

SHEHROZ ABBASI

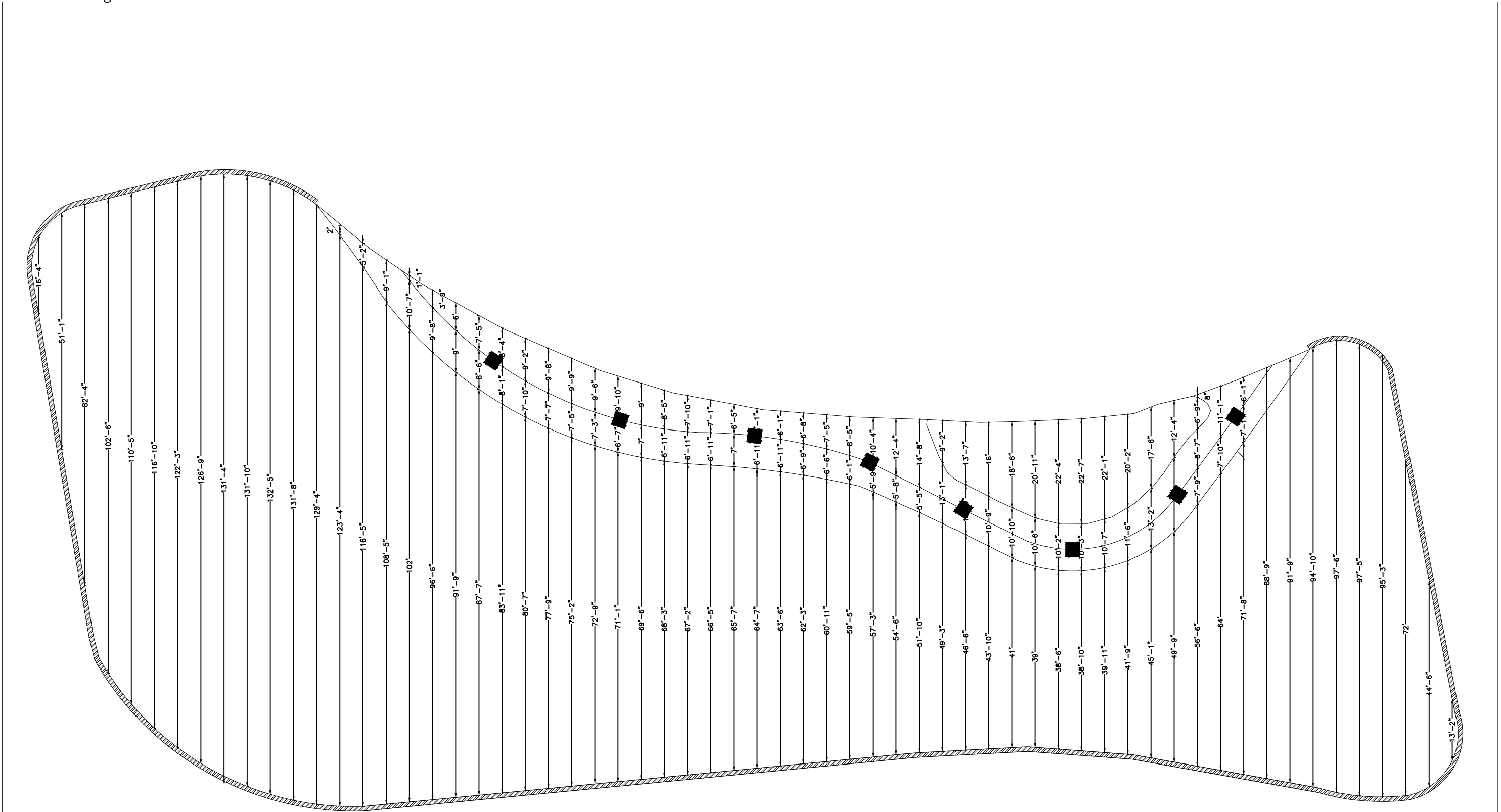
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SCALE
N.T.S

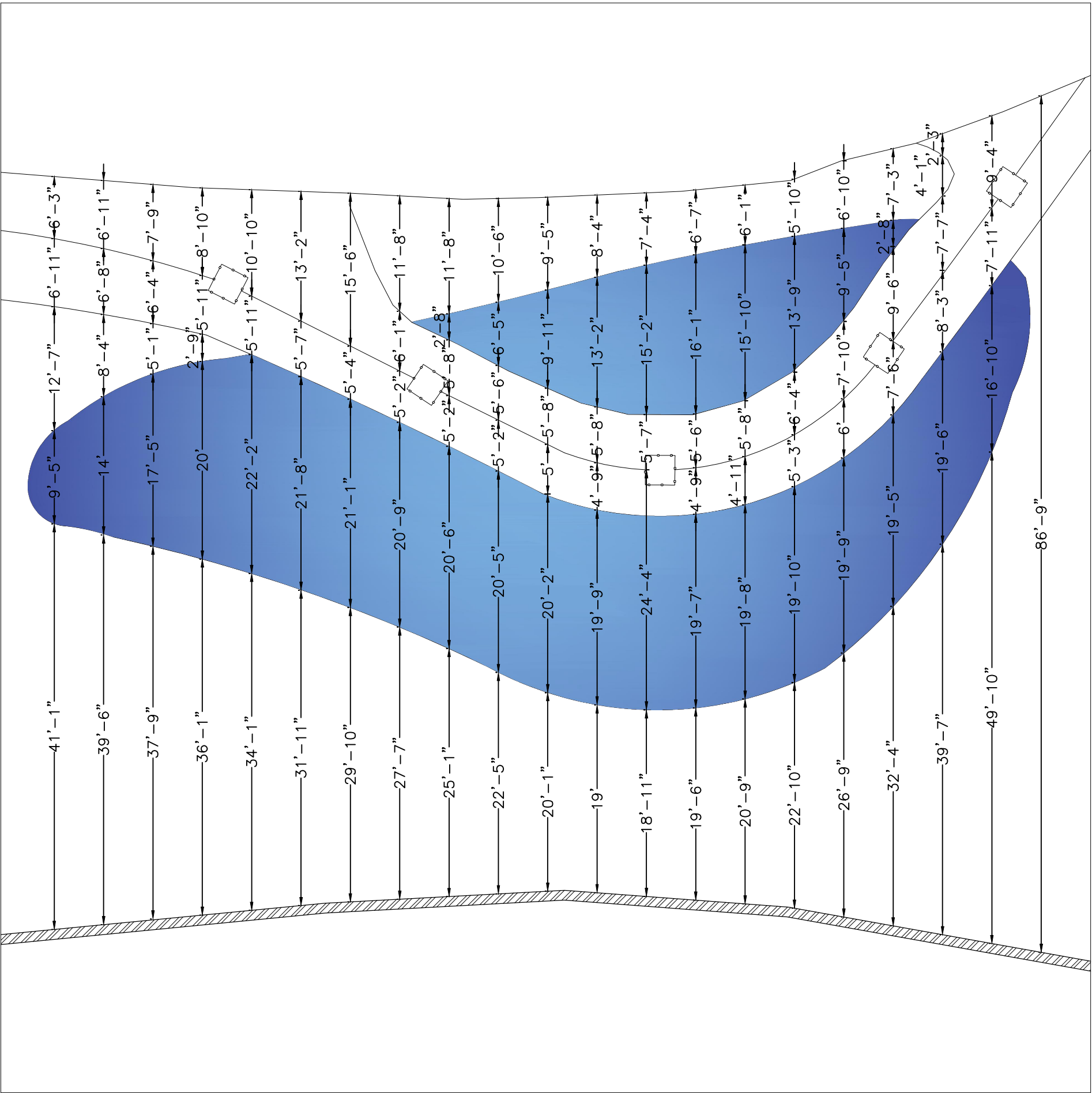
DATE
09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, ALFID & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE CROCODILE POND		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
			BRIDGE WORKING PLAN			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE	N.T.S
							CHECKED BY:		DATE	09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
						DRAWN BY:	SHEHROZ ABBASI	SCALE
					SHEET NO.			N.T.S
						CHECKED BY:		DATE
								09 JULY 2025
WILDLIFE & PARKS DEPARTMENT		SAFARI ZOO LAHORE		CROCODILE POND		OUTDOOR WORKING DRAWING		



CONSULTANT

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AUDIT & ACCOUNTS SOCIETY , LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT	WILDLIFE & PARKS DEPARTMENT
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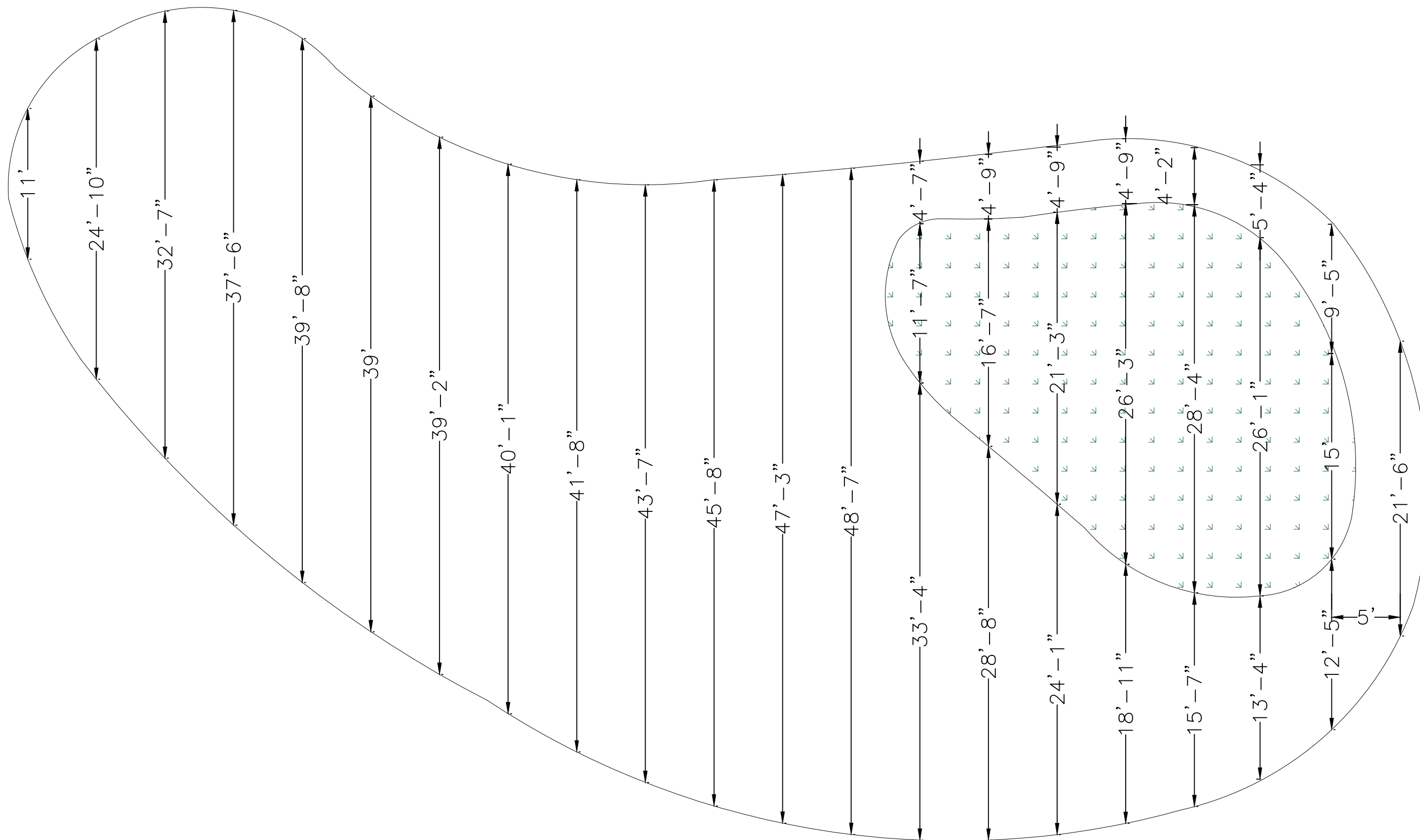
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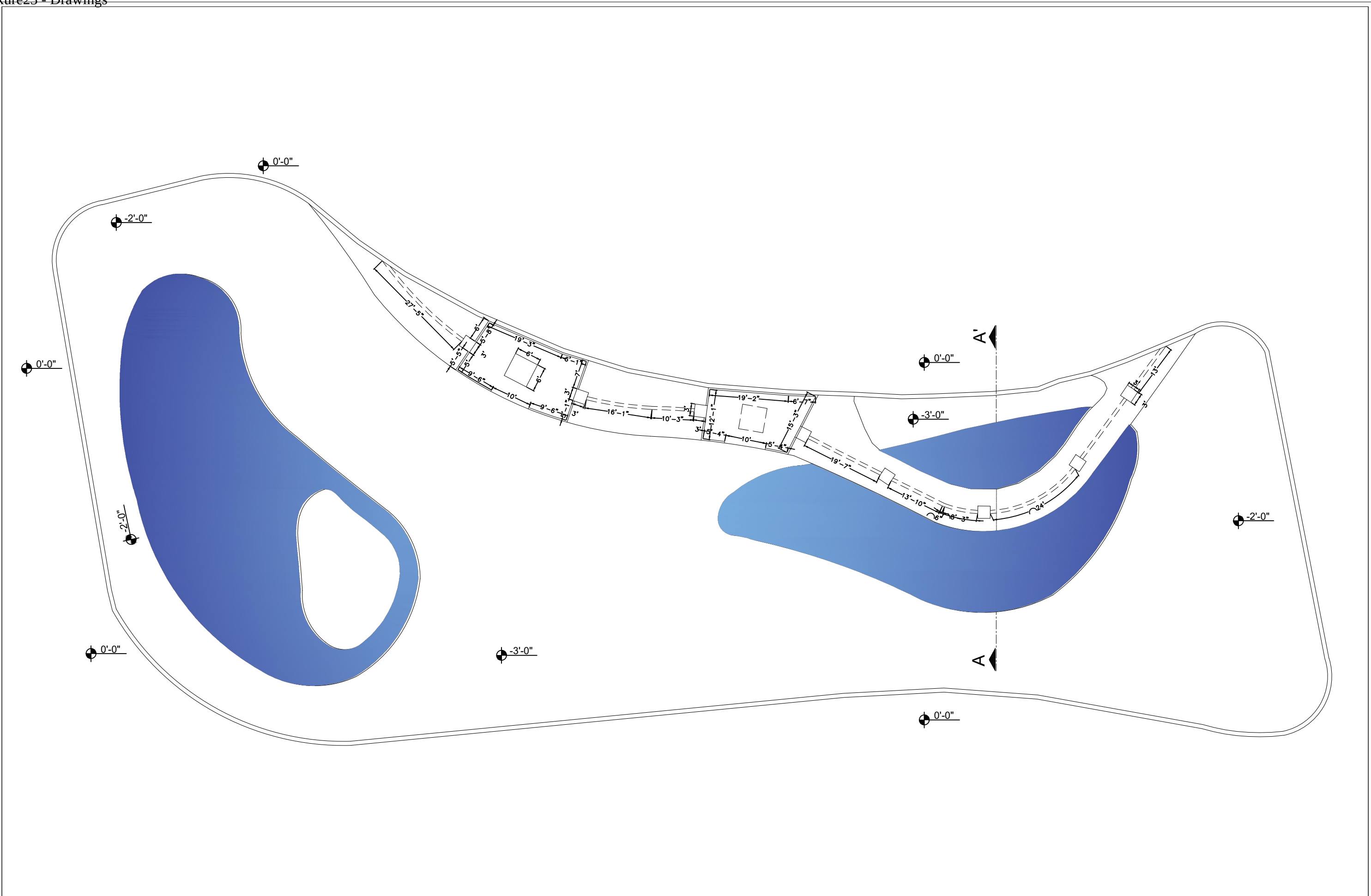
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DWG. NO.
SHEET NO.

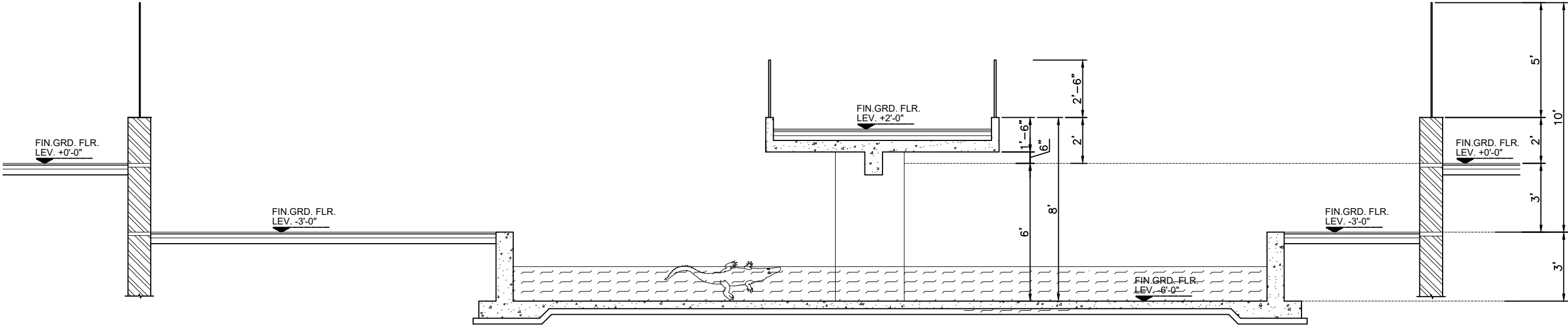
DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
DRAWN BY:	SHEHROZ ABBASI	SCALE N.T.S
CHECKED BY:		DATE 09 JULY 2025



CONSULTANT  CIVITECH ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY - LAHORE Ph. No. 03170000220 e.mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE CROCODILE POND	ORIENTATION	DWG. NO.	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA
			POND WORKING DRAWLING		SHEET NO.	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:	DATE 09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA
					SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE
						CHECKED BY:		N.T.S
WILDLIFE & PARKS DEPARTMENT		SAFARI ZOO LAHORE	CROCODILE POND					09 JULY 2025
			POND LEVEL DRAWLING					



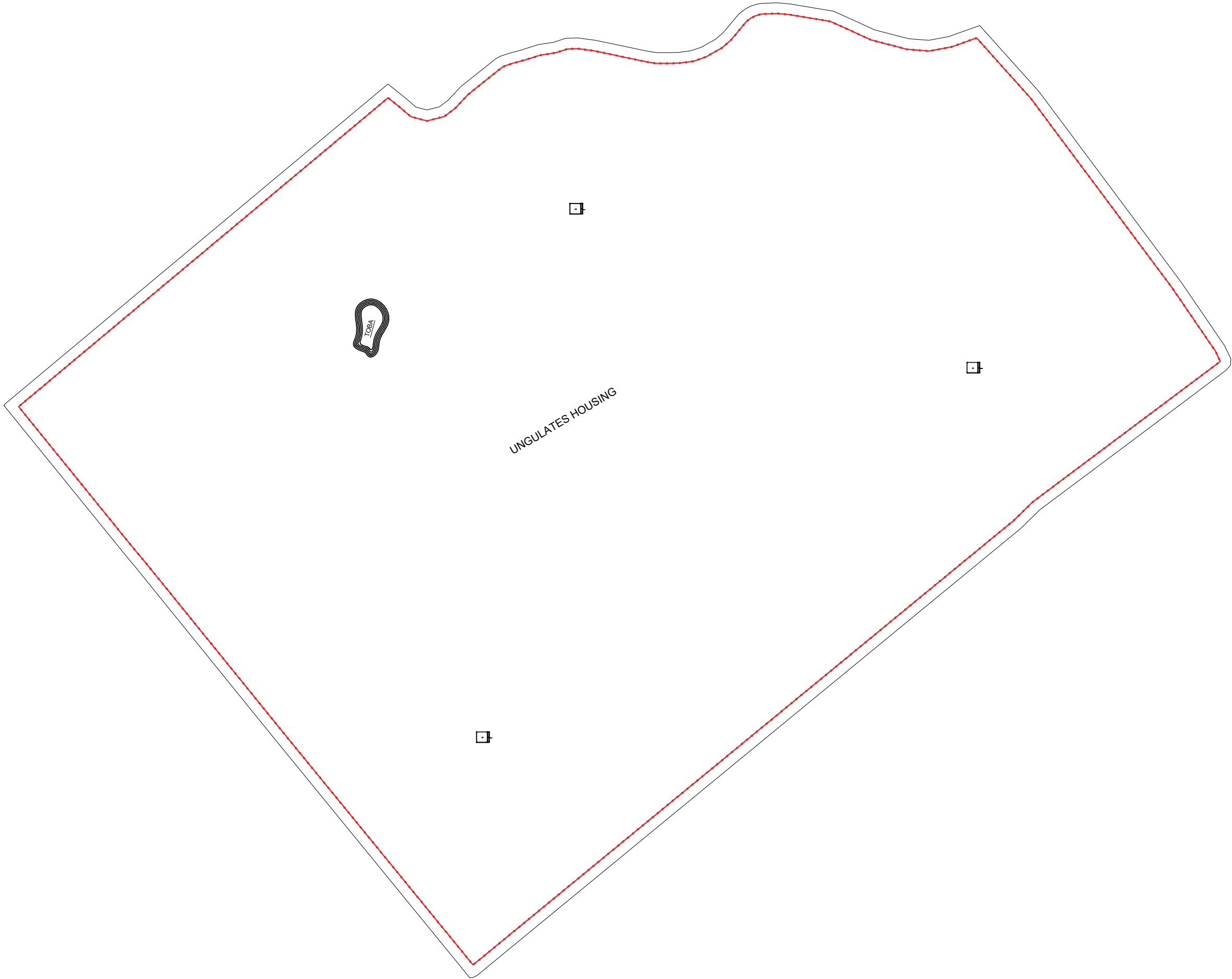
SECTION A-A



PROPOSED BUILDING FOR AFRICAN
UNGULATES WORKING DRAWINGS
JULY, 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY , LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE		ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA				
			3D VIEW			A-01			109 SFT				
			VIEW1			SHEET NO.	DRAWN BY:	SHEHROZ ABBASI	SCALE				
							09 JULY 2025						



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AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

MASTER PLAN

UNGULATES HOUSEING

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

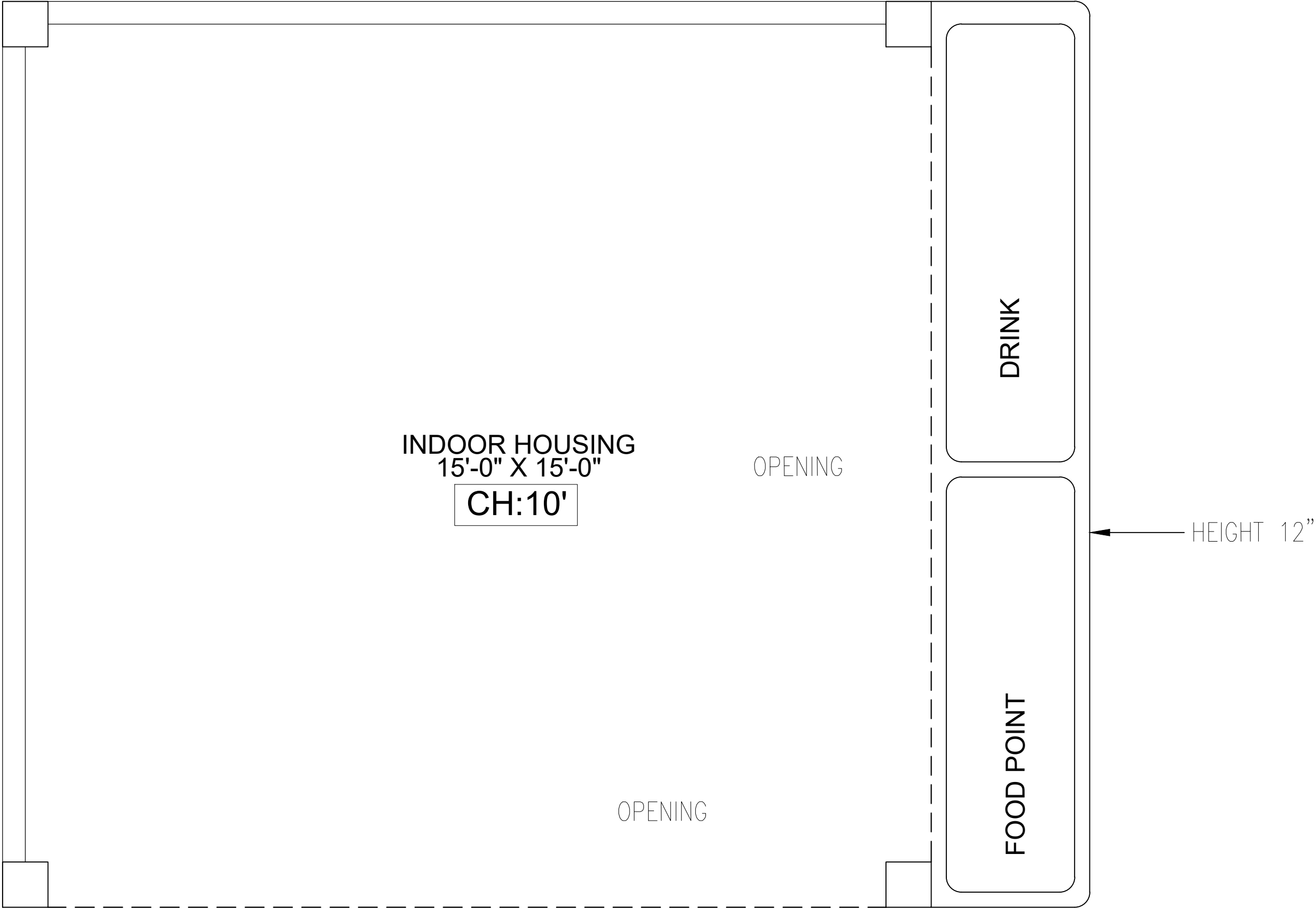
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SCALE

N.T.S

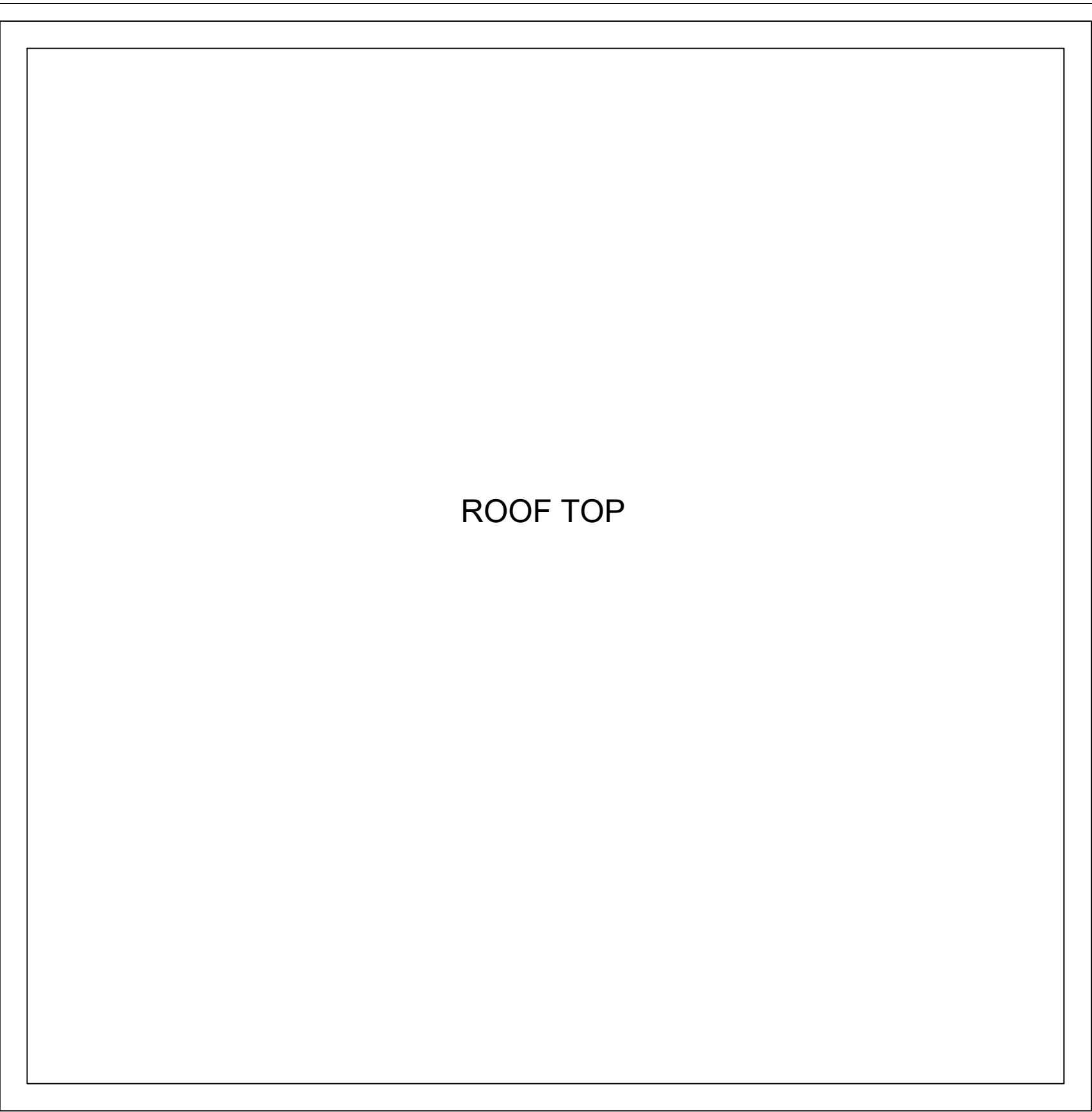
DATE

09 JULY 2025



GROUND FLOOR

CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e.mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA						
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					SHEET NO.	CHECKED BY:		N.T.S						
					WILDLIFE & PARKS DEPARTMENT			SAFARI ZOO LAHORE		ARCHITECTURE PLAN		UNGULATES HOUSEING		DATE
														09 JULY 2025



ROOF TOP

ROOF TOP

CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

ROOF TOP

UNGULATES HOUSEING

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

DRAWN BY:

CHECKED BY:

AR.ABDULLAH USMAN

SHEHROZ ABBASI

ENGR
BILAL CHOCHAN

COVERED AREA

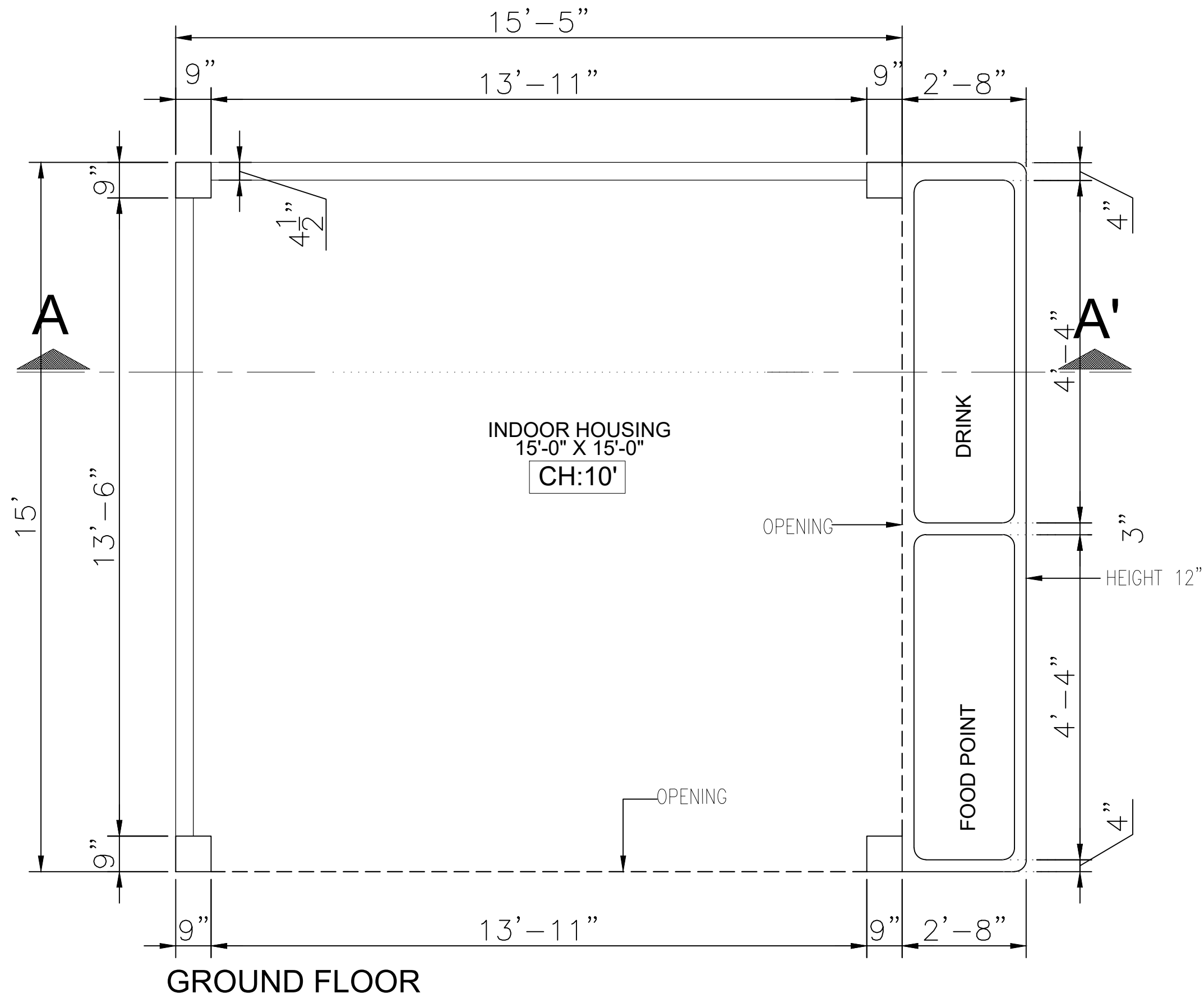
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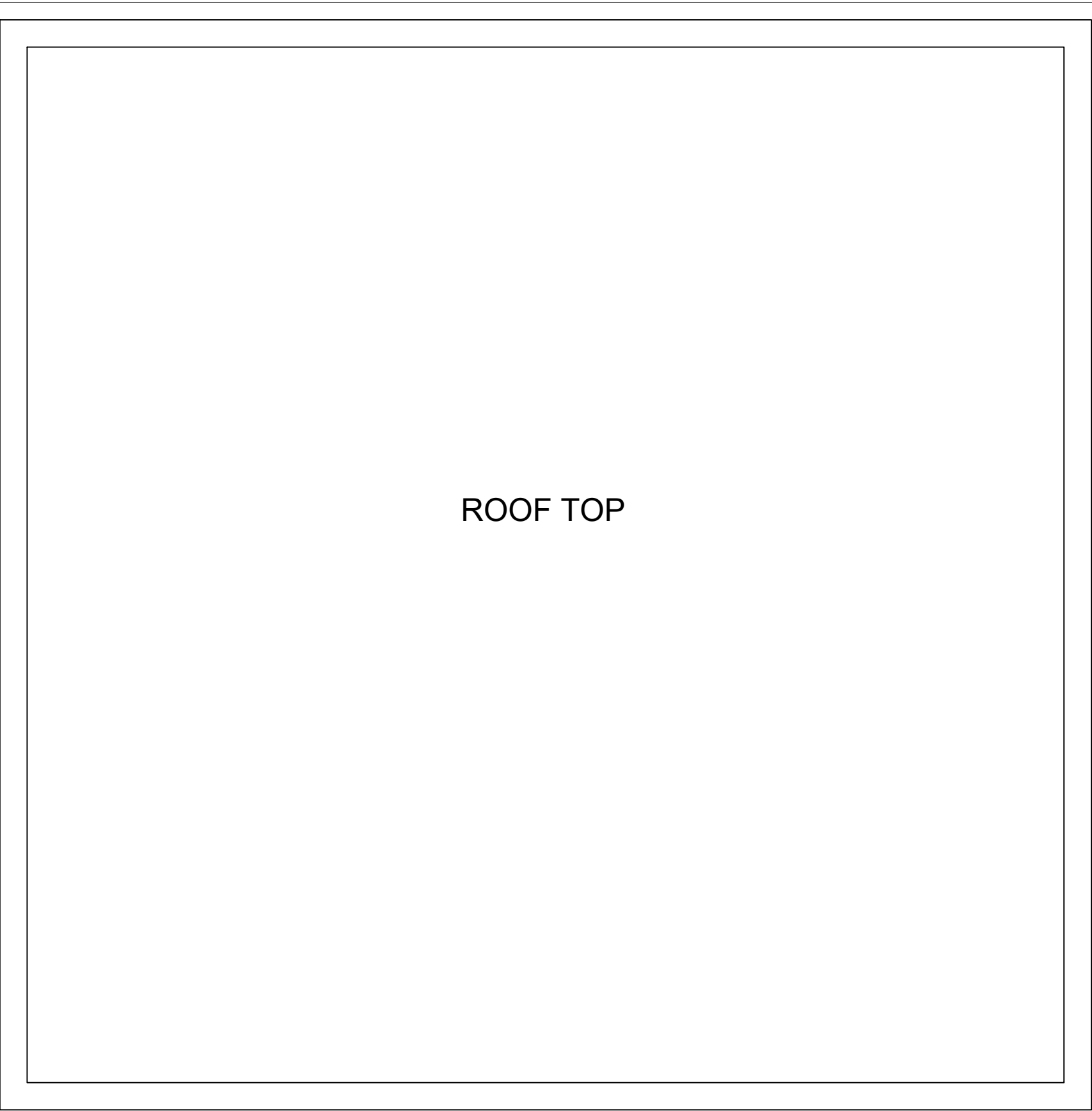
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DATE

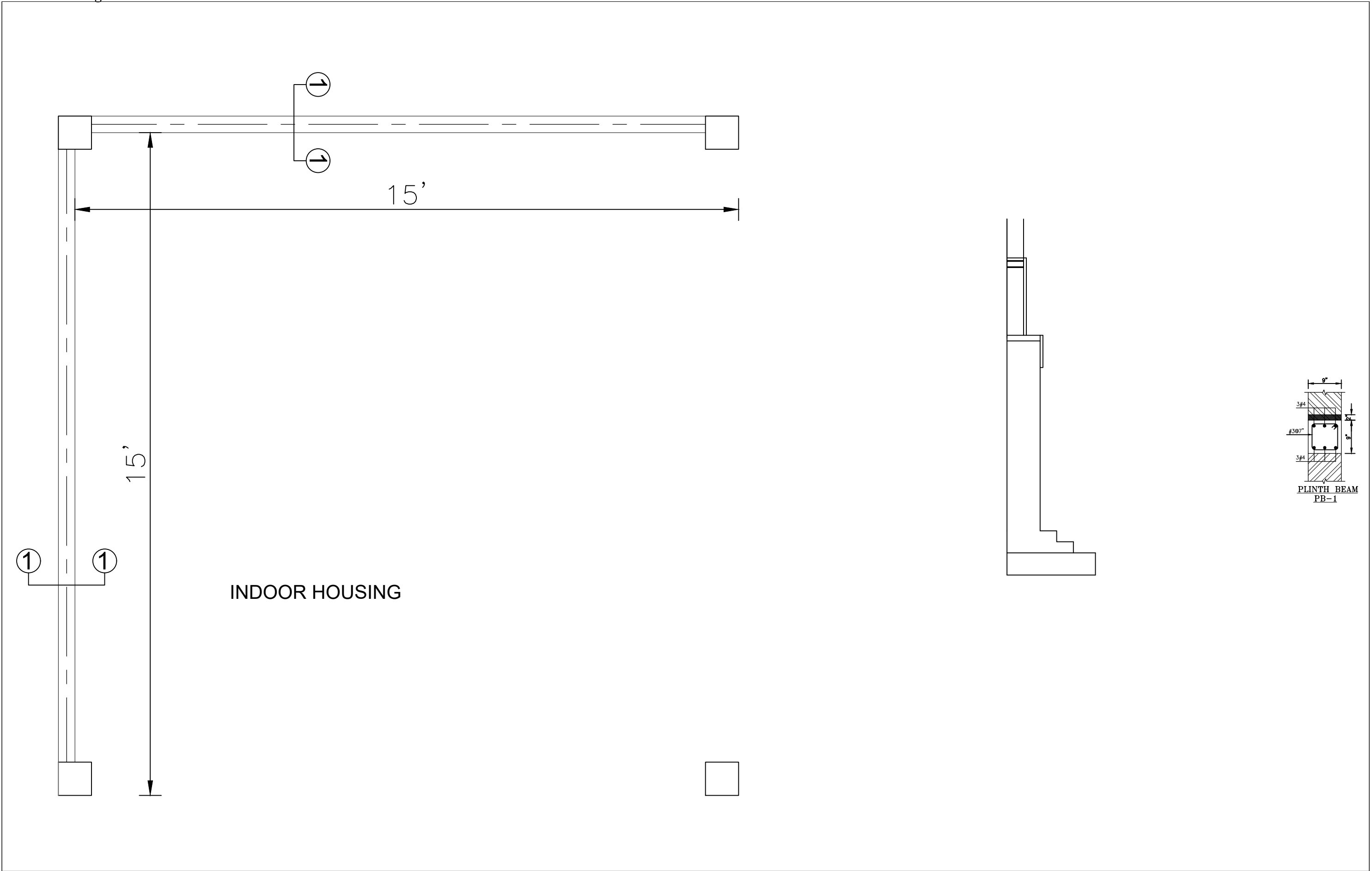
09 JULY 2025



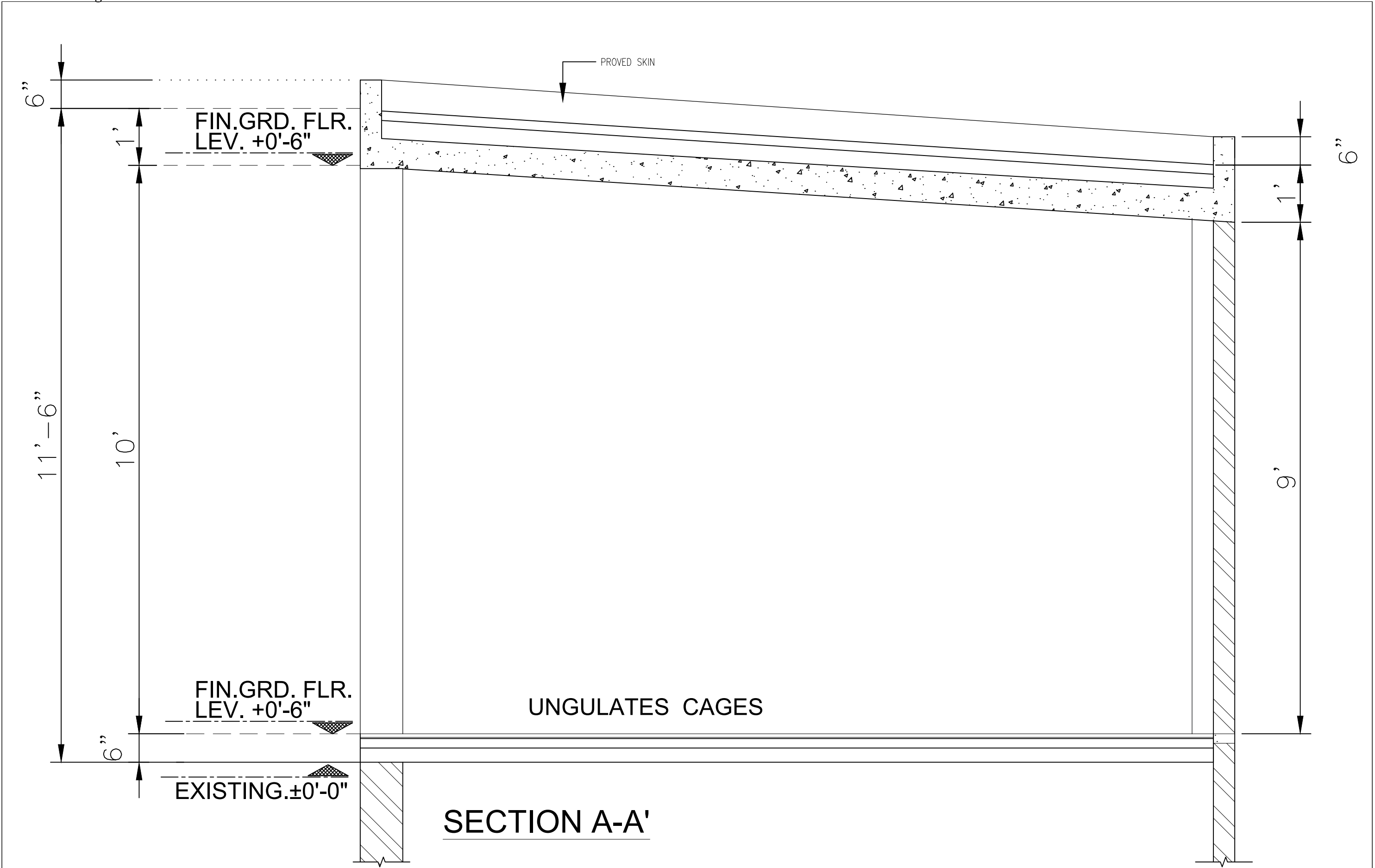


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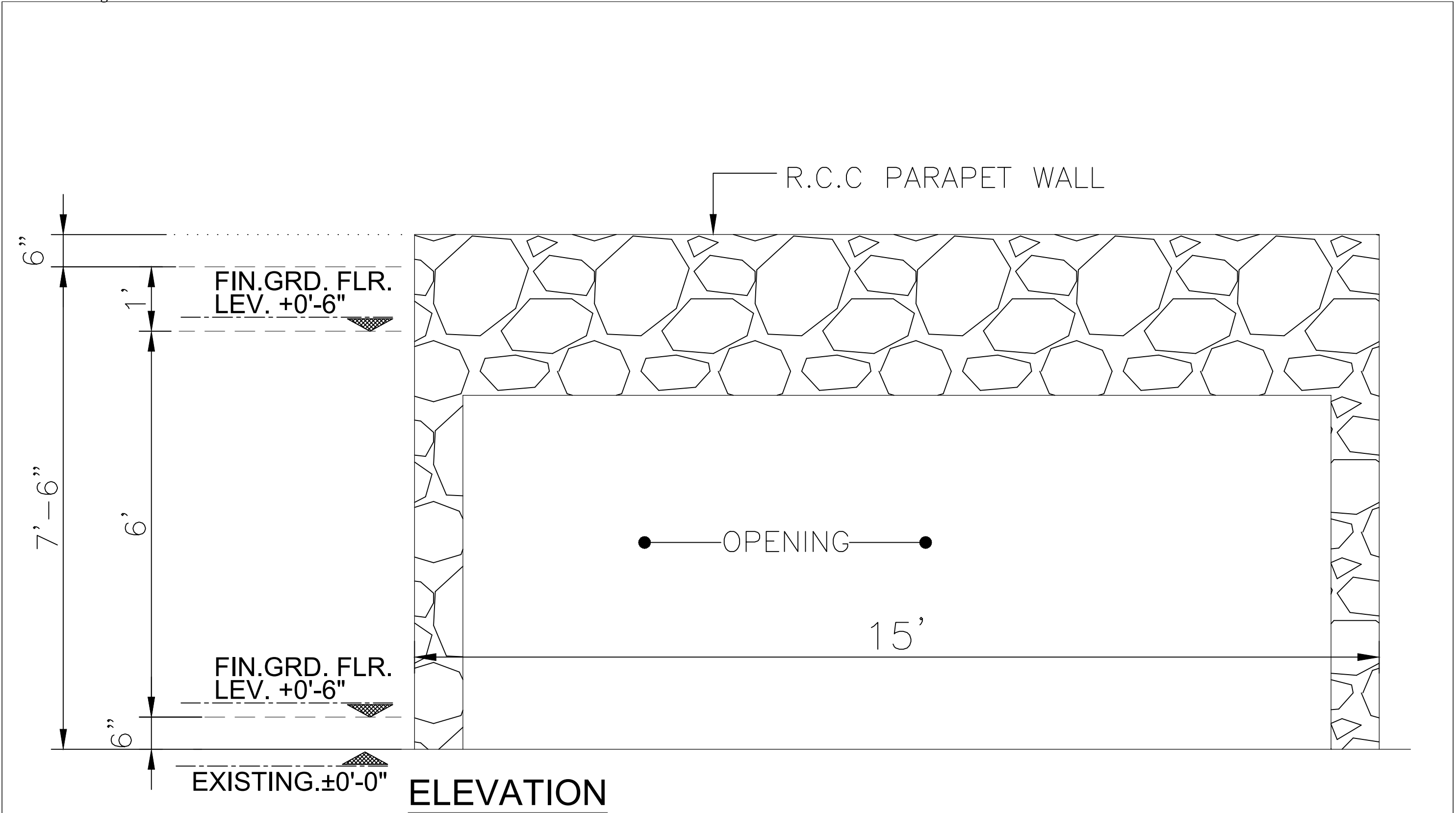
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	WILDLIFE & PARKS DEPARTMENT	PROJECT	SAFARI ZOO LAHORE	TITLE	ROOF TOP	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA		
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								SHEET NO.	CHECKED BY:	ENGR BILAL CHOCHAN	N.T.S		



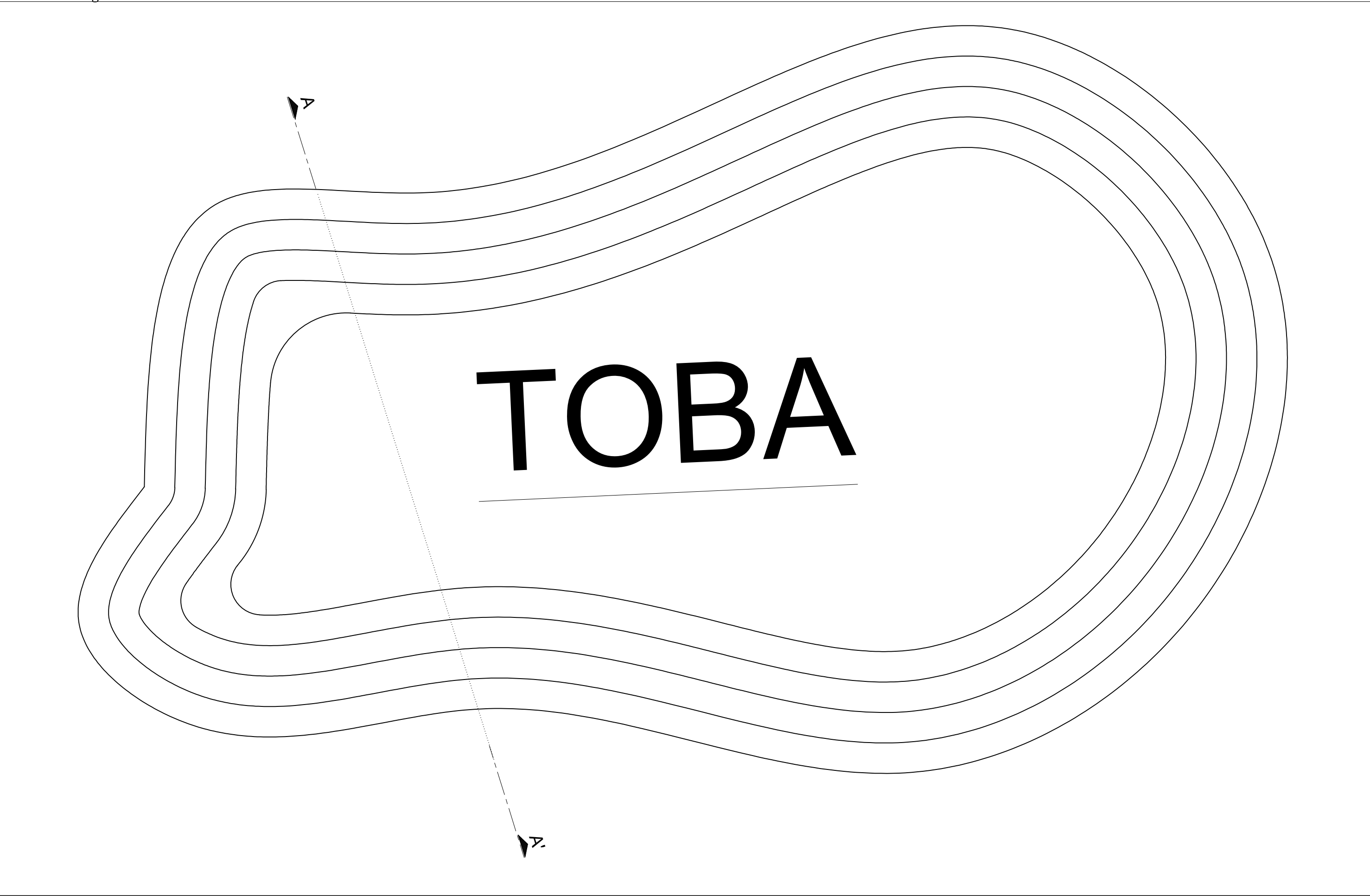
CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT	PROJECT	TITLE	ORIENTATION	DWG. NO.	DESIGNED BY:	AR.ABDULLAH USMAN	COVERED AREA	
					A-01	DRAWN BY:	SHEHROZ ABBASI	409 SFT	
					SHEET NO.	CHECKED BY:		N.T.S	
								DATE	
WILDLIFE & PARKS DEPARTMENT			SAFARI ZOO LAHORE		EXCAVATION PLAN		UNGULATES HOUSEING		09 JULY 2025



CONSULTANT  ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA, AUDIT & ACCOUNTS SOCIETY, LAHORE Ph. No. 03170000220 e-mail : info@civitech.co	CLIENT WILDLIFE & PARKS DEPARTMENT	PROJECT SAFARI ZOO LAHORE	TITLE SECTION A-A' UNGULATES HOUSEING	ORIENTATION	DWG. NO. A-02	DESIGNED BY: AR.ABDULLAH USMAN	COVERED AREA 109 SFT
					SHEET NO. 01 OF 02	DRAWN BY: SHEHROZ ABBASI	SCALE N.T.S
						CHECKED BY:	DATE 09 JULY 2025



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					A-01	DRAWN BY:	SHEHROZ ABBASI	109 SFT	
					SHEET NO.	CHECKED BY:		N.T.S	
								DATE	
WILDLIFE & PARKS DEPARTMENT			SAFARI ZOO LAHORE		ELEVATION		UNGULATES HOUSEING		09 JULY 2025



CONSULTANT


ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

TOBA

UNGULATES HOUSEING

ORIENTATION

DWG. NO.

A-01

SHEET NO.

DESIGNED BY:

AR.ABDULLAH USMAN

DRAWN BY:

SHEHROZ ABBASI

CHECKED BY:

COVERED AREA

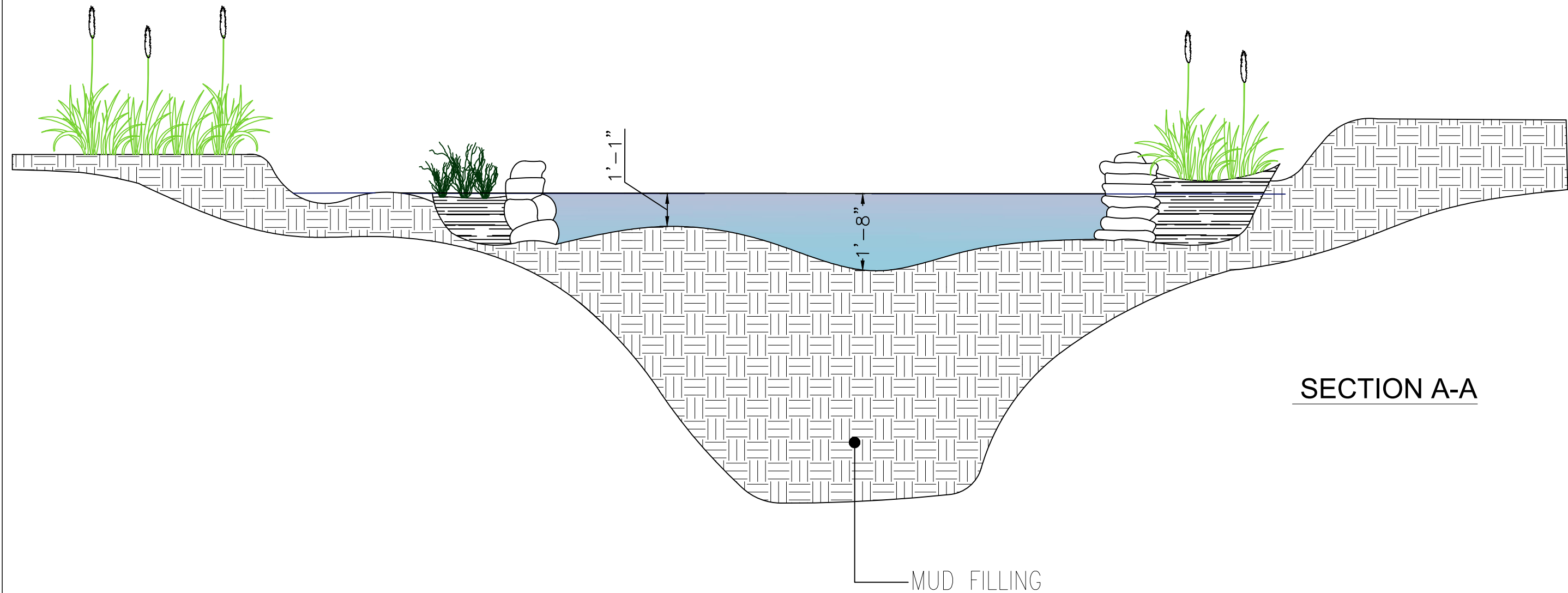
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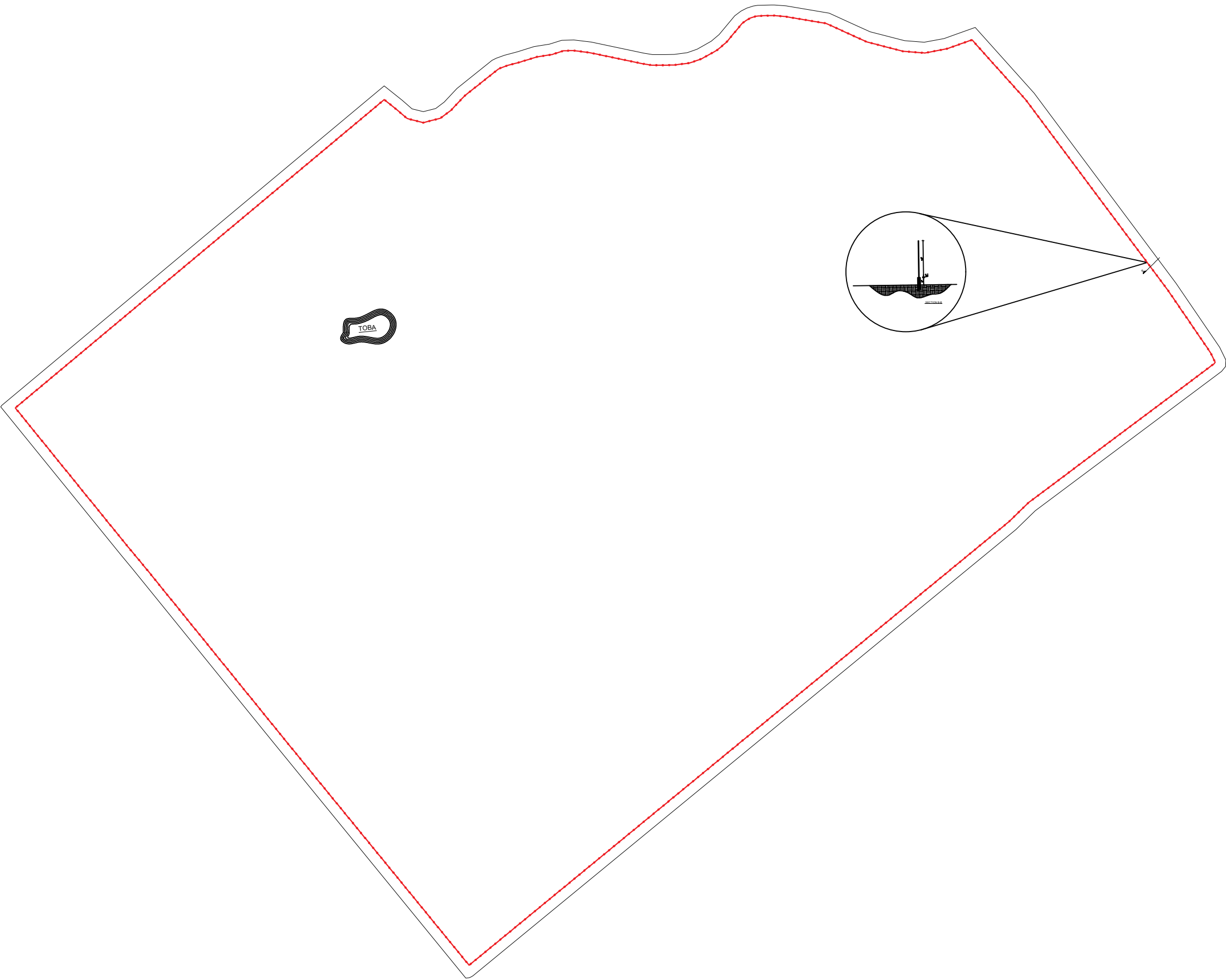
SCALE

N.T.S

DATE

09 JULY 2025





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AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT

WILDLIFE & PARKS
DEPARTMENT

PROJECT

SAFARI ZOO LAHORE

TITLE

SECTION DETAILS
UNGULATES HOUSEING

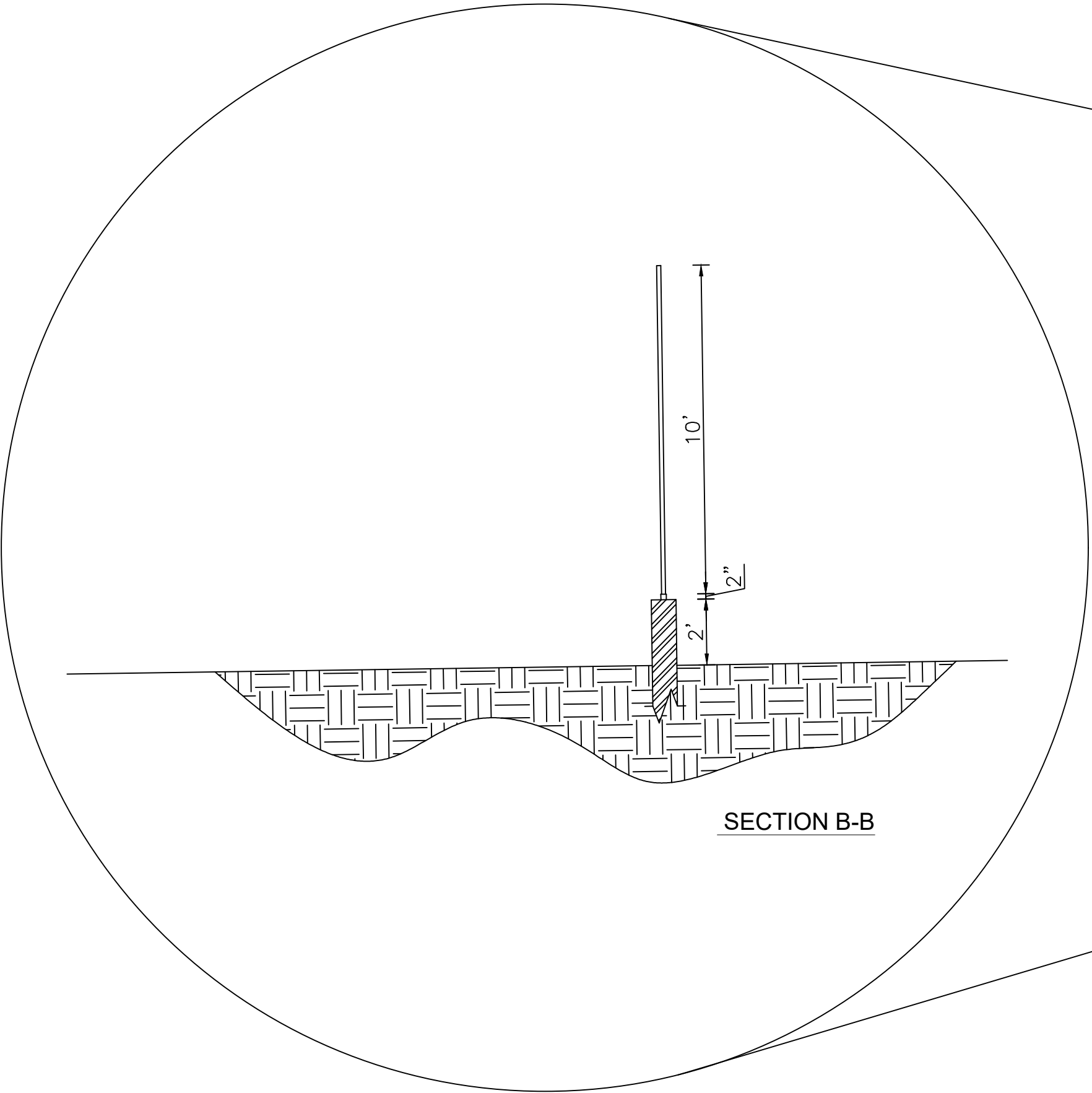
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DWG. NO.
A-01
SHEET NO.

DESIGNED BY:
DRAWN BY:
CHECKED BY:

AR.ABDULLAH USMAN
SHEHROZ ABBASI

COVERED AREA
109 SFT
SCALE
N.T.S
DATE
09 JULY 2025



CONSULTANT
CIVITECH
ENGINEERING SOLUTION OFFICE # 11-B, COMMERCIAL PLAZA,
AUDIT & ACCOUNTS SOCIETY, LAHORE
Ph. No. 03170000220 e-mail : info@civitech.co

CLIENT
**WILDLIFE & PARKS
DEPARTMENT**

PROJECT
SAFARI ZOO LAHORE

TITLE
SECTION B-B'
UNGULATES HOUSEING

ORIENTATION

DWG. NO.
A-01
SHEET NO.

DESIGNED BY:
DRAWN BY:
CHECKED BY:

AR.ABDULLAH USMAN
SHEHROZ ABBASI

COVERED AREA
109 SFT
SCALE
N.T.S
DATE
09 JULY 2025

**ROCK CLIMBING & ZIPLINE
TOWER
STRUCTURAL DRAWINGS
AUGUST, 2025**

GENERAL NOTES & SPECIFICATIONS

1. General

- 1.1. All structural drawings should be read in conjunction with Architectural, Civil, Mechanical, Electrical and other relevant drawings. The contractor should coordinate with Architectural and various service drawings for levels, sizes and location of all Structural members, Floors Walls and Pipes etc..
- 1.2. The contractor shall report all discrepancies, differences and conflicts, as soon as they are observed.
- 1.3. Safe working practices will be adopted, and no damage to any property or life will be ensured.
- 1.4. Prior approval of proposed method of work, sequence of jobs, location of block-outs and construction joints in concrete , location of all splices and proposed values of camber is required.
- 1.5. The structure is not designed against construction loads. The contractor is responsible for ensuring that all elements should remain supported during construction.
- 1.6. Prior to adopting finished levels of structural elements, proper allowances are to be maintained by the contractor.

2. Design

- 2.1. The Structural design of all concrete elements is based on Building Code Requirements for Structural Concrete (ACI 318-08) of the American Concrete Institute, USA.
- 2.2. The Structural design of all masonry elements shall conform to Specification for Masonry Structures (ACI 530.1-05/ ASCE 6-05/ TMS 602-05) reported by the Masonry Standards Joint Committee (MSJC) USA.

3. Construction

- 3.1. Work on this building shall conform to all requirements of ACI 301-05 published by the American Concrete Institute, Farmington Hills, Michigan, except as modified by the requirements below.
- 3.2. The Construction Work of all Masonry elements should confirm to Specification for Masonry Structures (ACI 530.1-05/ ASCE 6-05/ TMS 602-05) reported by the Masonry Standards Joint Committee (MSJC) USA..

4. Materials

- 4.1. Concrete
 - 4.1.1. Plain Concrete
 - All Plain concrete shall have a cylinder strength of 1500 psi, at 28 days, unless noted otherwise.
 - 4.1.2. Structural Concrete
 - a) The structural concrete for all columns and foundations shall have a minimum compressive cylinder strength of 4,000 psi, at 28 days.
 - b) All concrete work shall conform to Specifications for Structural Concrete for Buildings ACI 301-05 published by the American Concrete Institute, Farmington Hills, Michigan.
 - c) Unless Noted Otherwise all other structural concrete shall have a minimum compressive cylinder strength of 3,000 psi, at 28 days.

Note that specified compressive strength shall be achieved through proper mix design and this design shall be sole responsibility of Contractor (or as specified in the contract documents).

4.2. Reinforcing Steel

4.2.1. Except as otherwise specified, all reinforcing steel shall conform to ASTM A615, Grade 60.

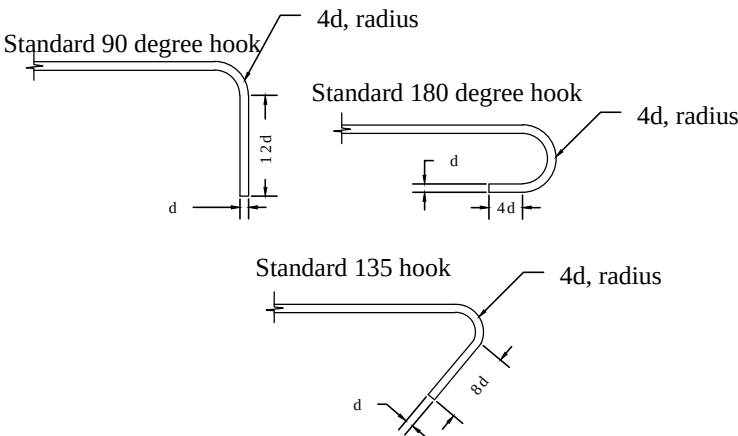
4.2.2. Clear Concrete Covers to Reinforcement

	Member	Cover
1)	Foundations	2"
2)	Columns	1½"
3)	Beams (with depth less than 10")	¾"
4)	Beams (with depth greater than 10")	1½"
5)	Slab	¾"
6)	Walls Facing Soil	2"
7)	Walls Other	1"

- 4.1. In order to ensure the specified covers, bars must be secured in position, with the help of concrete spacer blocks, with embedded binding wire.
- 4.2. To support top bars, provide supporting rebars and standard ACI chairs.

5. Bar Development

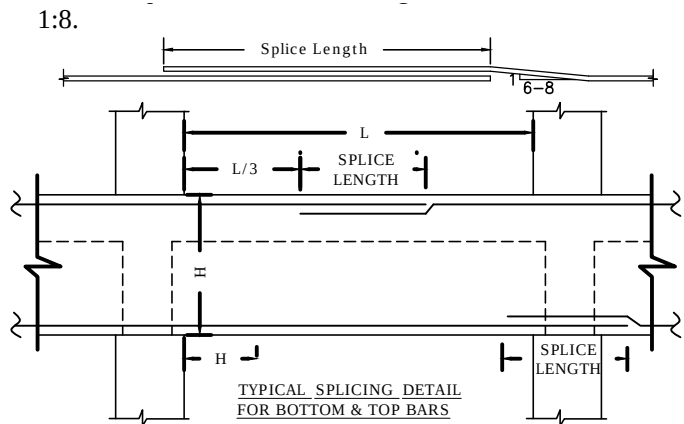
- 5.1. Standard Hooks
 - Unless otherwise shown in the drawings, standard ACI hooks shall be provided at the free ends of all bars.
- 5.2. Unless noted otherwise, the hooks will comply the following dimensions:



- 5.3. Development and Splice Lengths
 - a. Splice length of reinforcing bars shall as follows.

Bar Designation	Splice lengths (in)			
	Concrete with cylinder strength of 3,000 psi at 28 days		Concrete with cylinder strength of 4,000 psi at 28 days	
	Top bars* Splice Length	Other than top bars Splice Length	Top bars* Splice Length	Other than top bars Splice Length
#3	30	24	27	21
#4	39	30	33	27
#5	48	36	42	33
#6	57	45	51	39
#8	93	72	81	63

- * Top bars are horizontal bars, with at least 12 in of fresh concrete below them.
- b. For splicing unequal diameter bars, use smaller diameter for splice length determination.
- c. Where required, bar shall have a gradient between 1:6 to



8. Construction Joints

- a. Construction joints shall be located with the prior approval of the Engineer, if it is not indicated in the drawing.
- b. On proposed construction joint surfaces, all fines shall be removed, on initial setting of concrete, but before its hardening. In order to achieve this, sand blasting or wire brushing could be used. Before placing the second-stage concrete, the joint surface shall be cleaned free of all loose material and washed. A bonding agent shall be applied to the surface and concrete placed within the period stipulated by the manufacturer.

9. Foundation

- a. Foundation Should be executed in accordance with geotechnical investigation report of this project.
- b. Procedure for placement of structural fill should be strictly followed as if recommended in geo technical report.
- c. All footings should be concentric with the column centre line unless otherwise shown.
- d. Irregularity formed from loose strata under the footing shall be replaced with plain cement concrete.

10. Terms & Abbreviations

- Following terms and abbreviations are used in all structural drawings.
- a) UNO: Unless Noted Otherwise
 - b) NSL: Natural Surface Level
 - c) Typ: Typical
 - d) FFL: Finished Floor Level
 - e) C.Joint: Construction Joint

CLIENT:

PROJECT:



NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

REVISIONS:

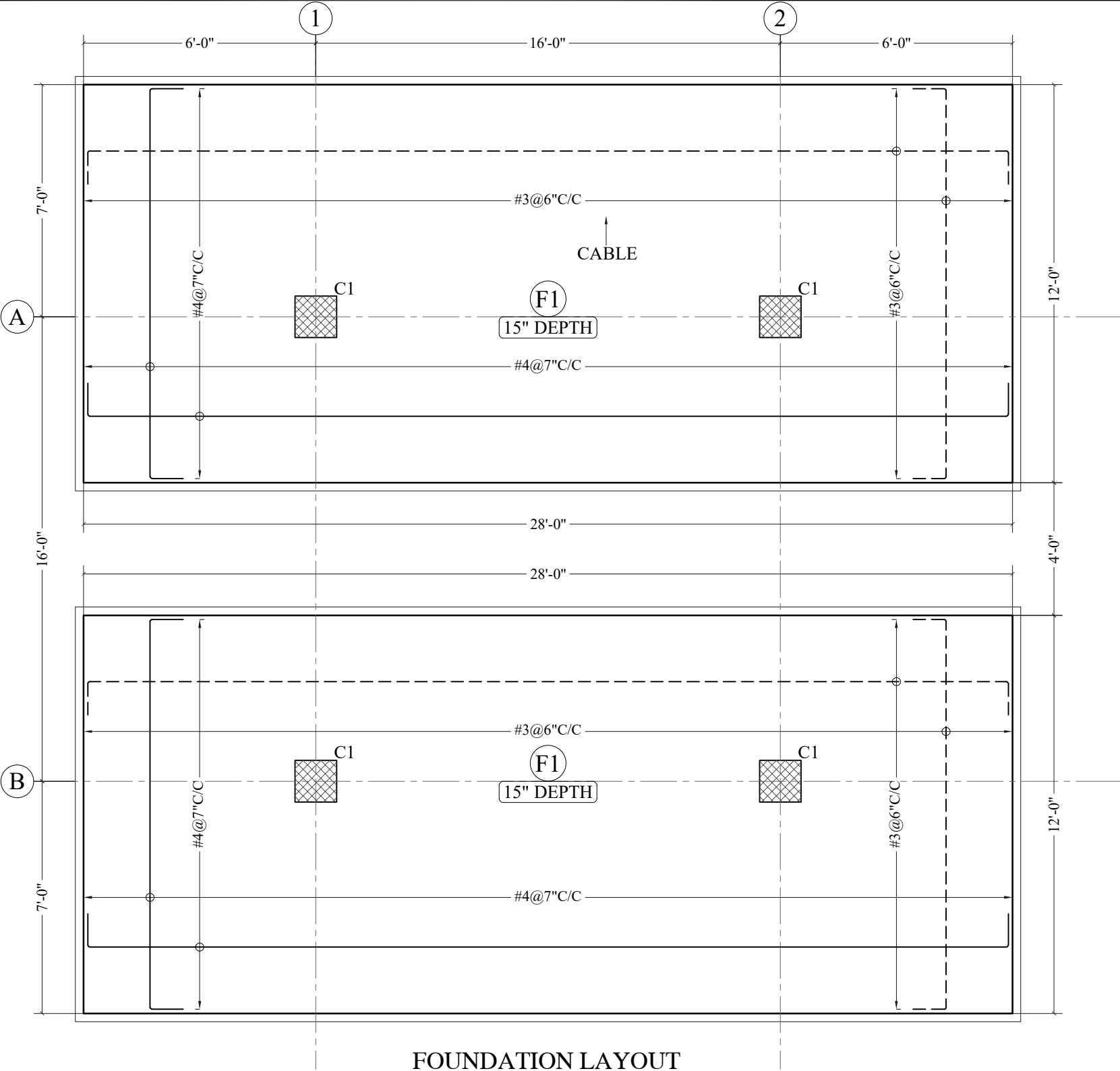
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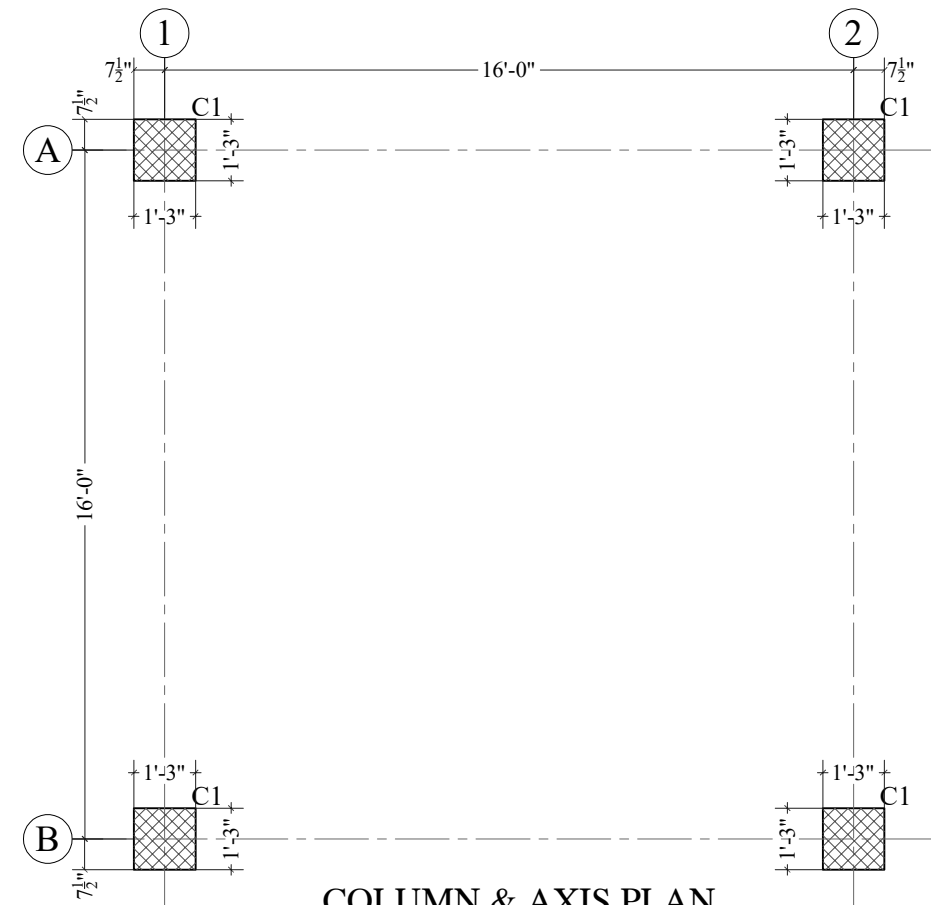
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GENERAL NOTES

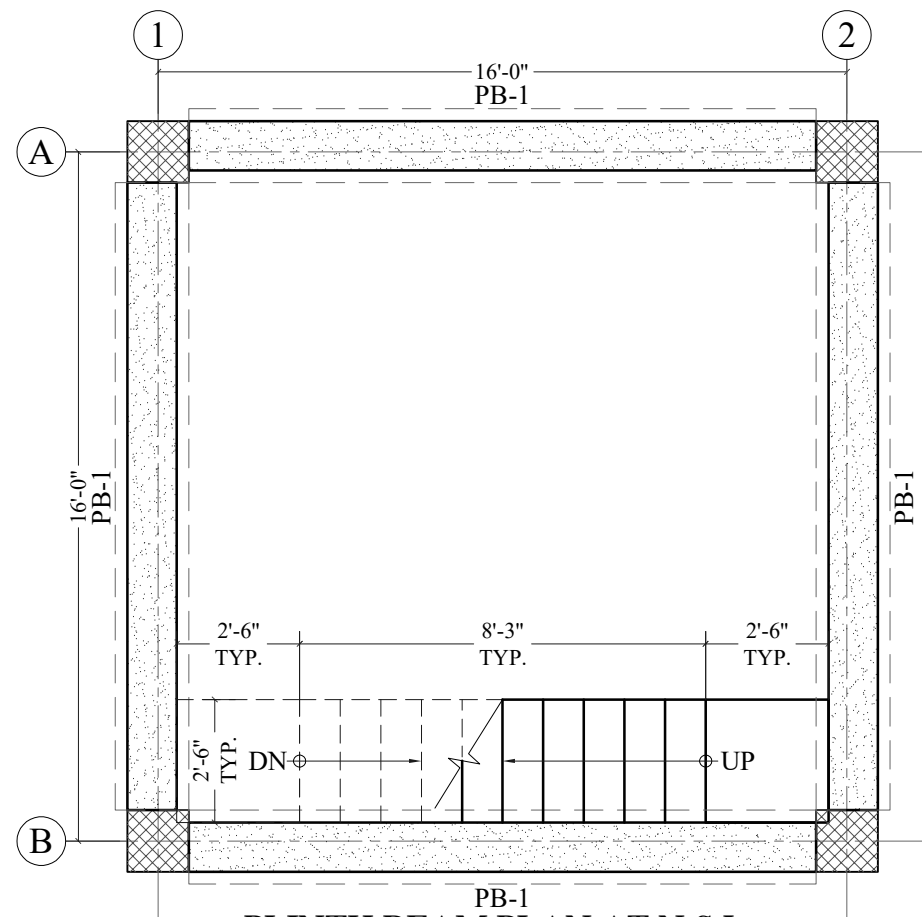
DESIGNED BY: Engr. Asharib	DATE: Aug. 2025
CHECKED BY: Engr. Asharib	
DRAWING NO: 001 ST	REV: 0
SCALE (A3): N.T.S	SHEET: 1/1



FOUNDATION LAYOUT
SCALE: 1/4"=1'-0"



COLUMN & AXIS PLAN
SCALE: 1/4"=1'-0"



PLINTH BEAM PLAN AT N.S.L
SCALE: 1/4"=1'-0"



CLIENT:

PROJECT:

NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

REVISIONS:

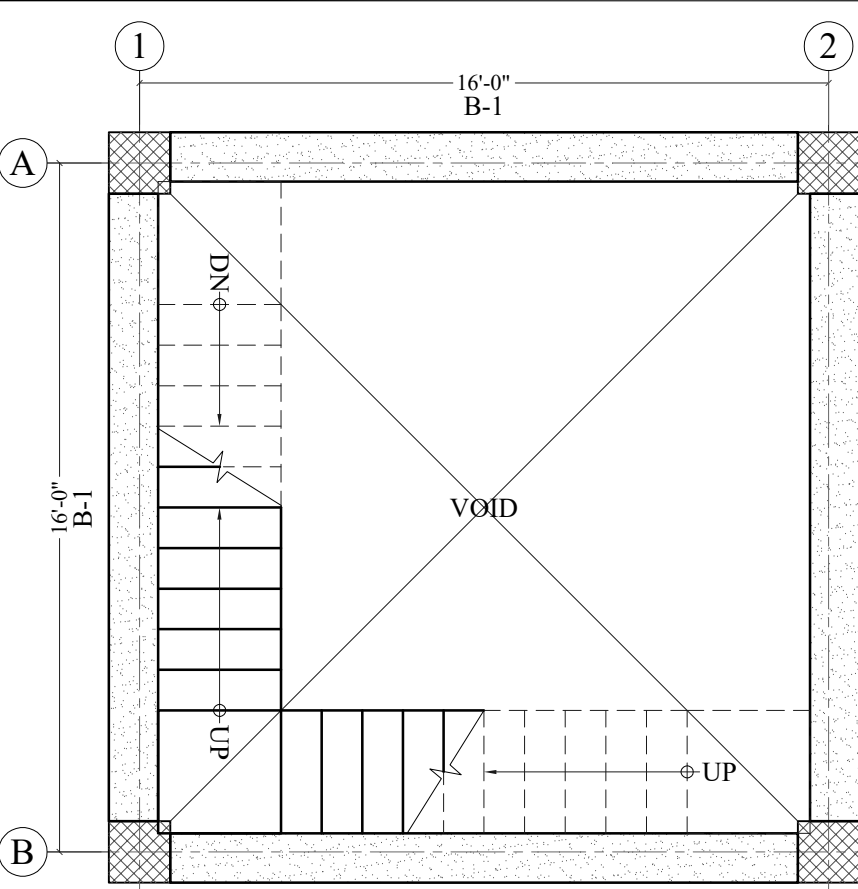
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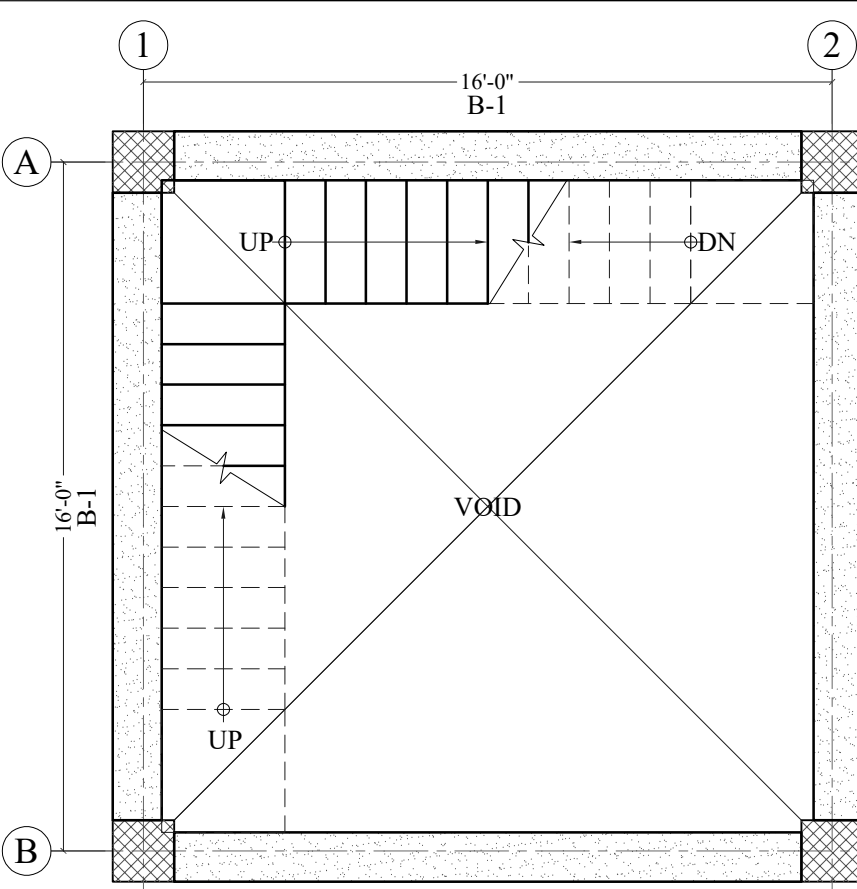
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PLINTH BEAM PLAN

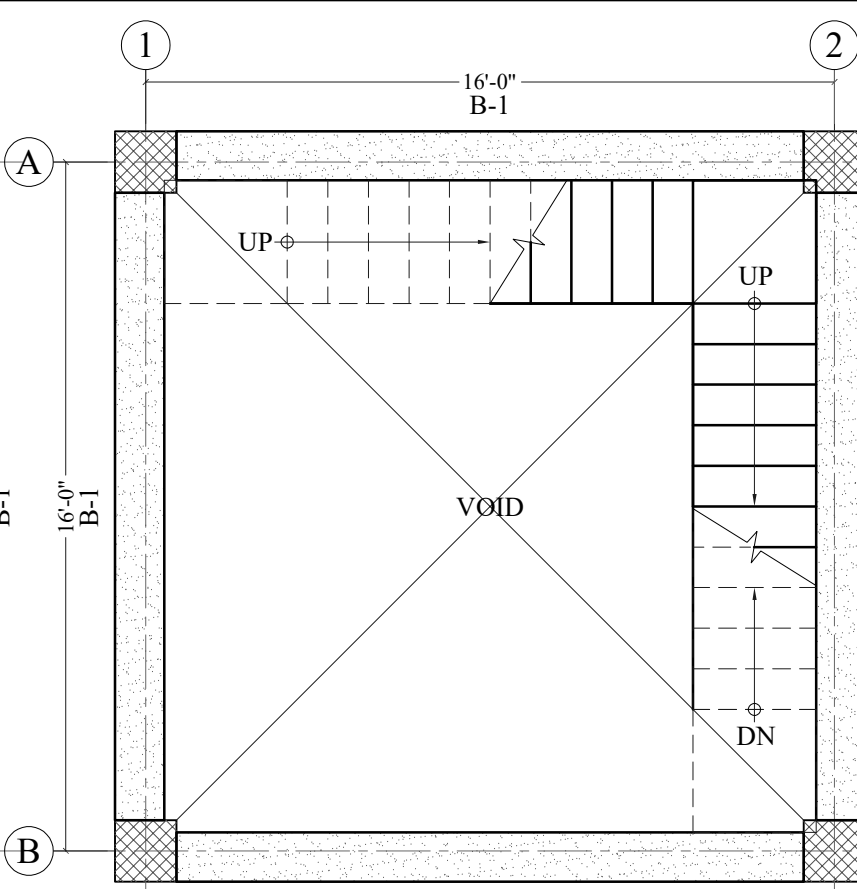
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CHECKED BY: Engr. Asharib	REV: 0
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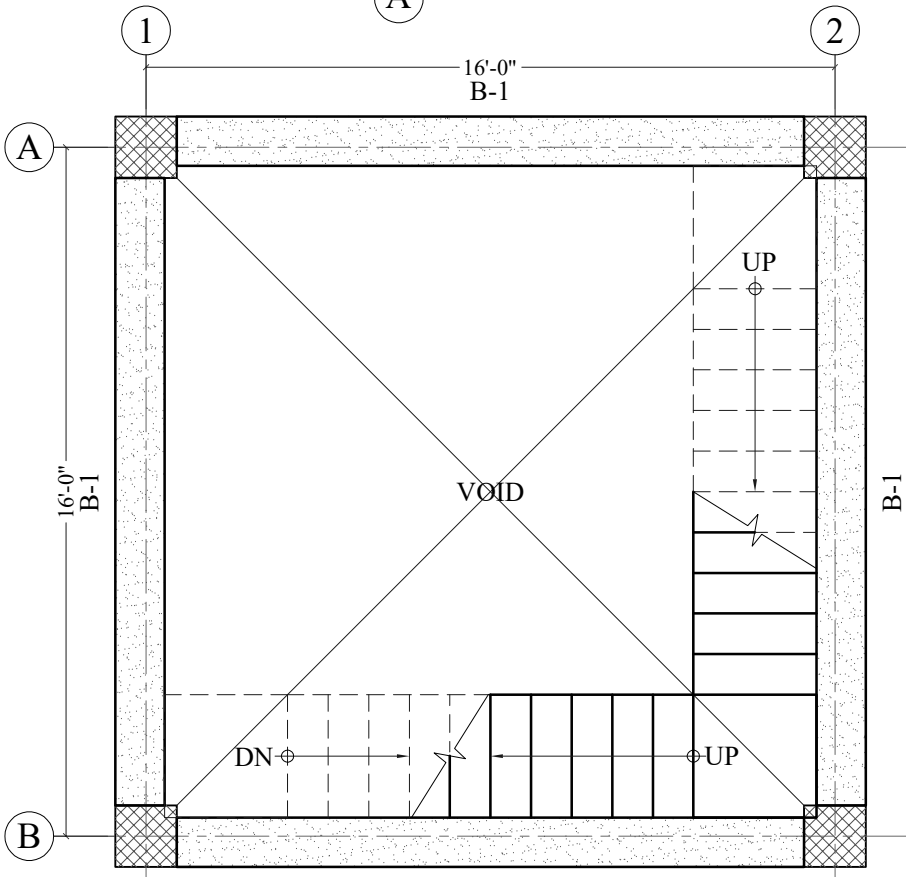
B-1
FIRST FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" **LEV. + 8'.00**



B-1
SECOND FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" **LEV. + 16'.00**



B-1
THIRD FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" **LEV. + 24'.00**



B-1
FOURTH FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" **LEV. + 32'.00**

CLIENT:

PROJECT:

NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

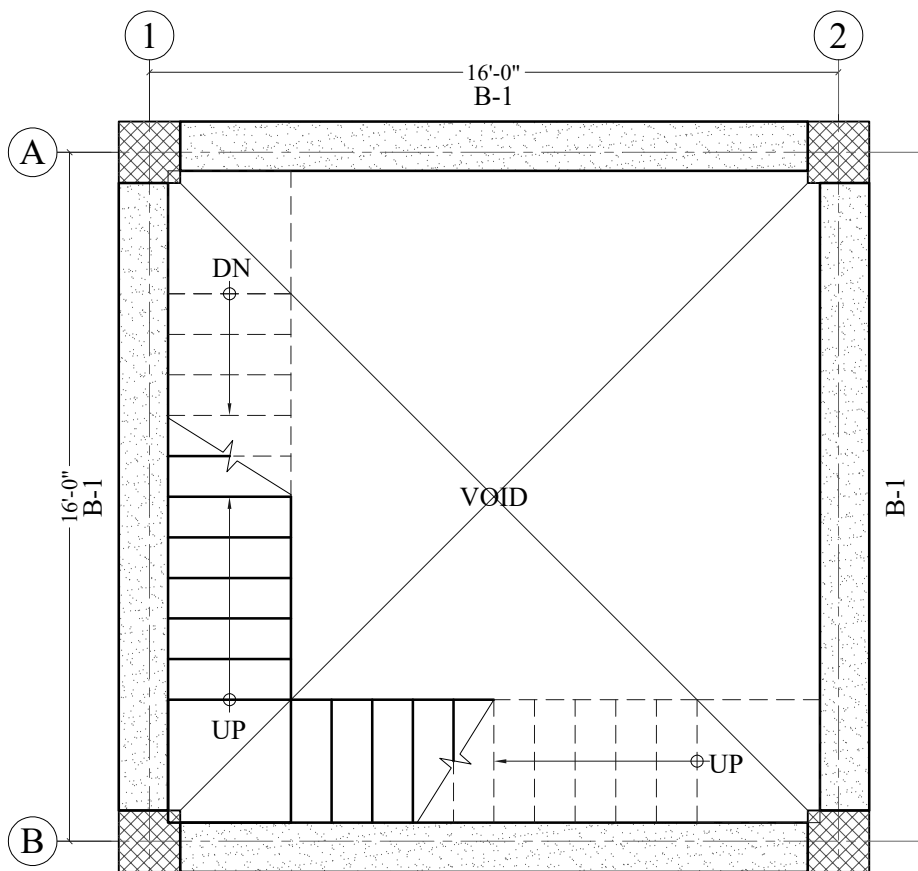
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No.	DESCRIPTION	DATE

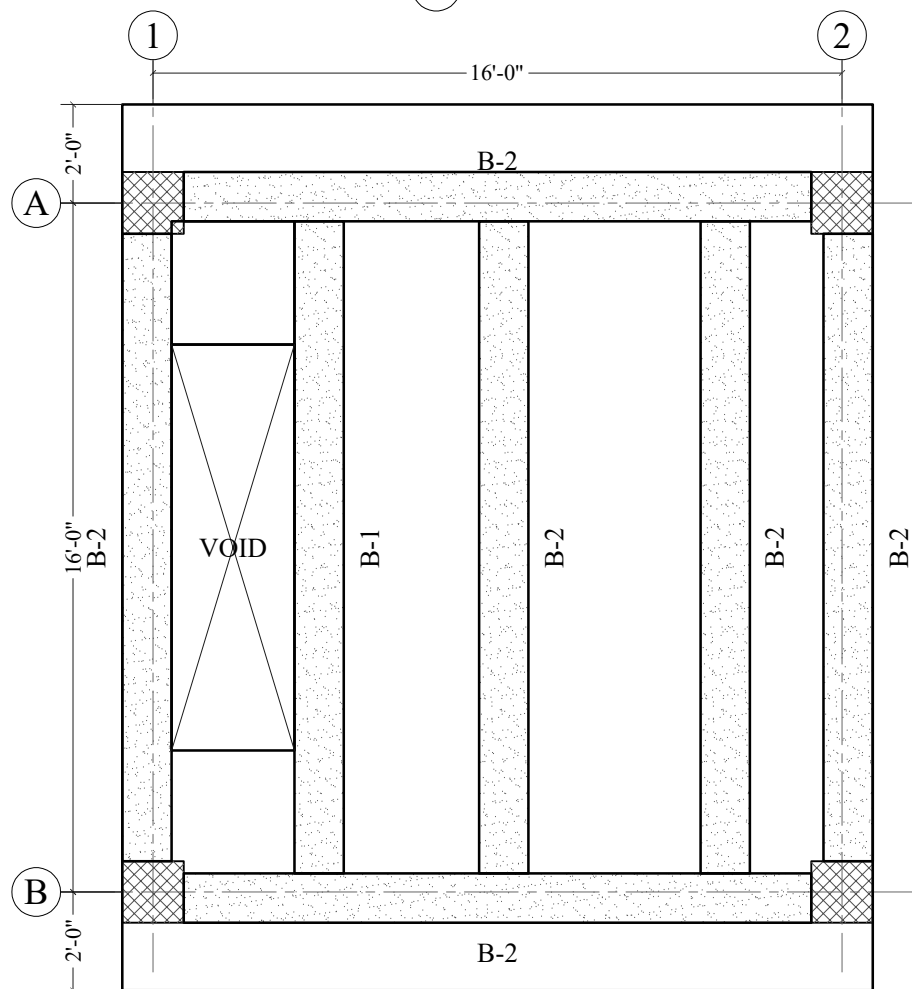
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DRAWING TITLE:
FIRST FLOOR FRAMING,
SECOND FLOOR FRAMING,
THIRD FLOOR FRAMING AND
FOURTH FLOOR FRAMING
PLAN

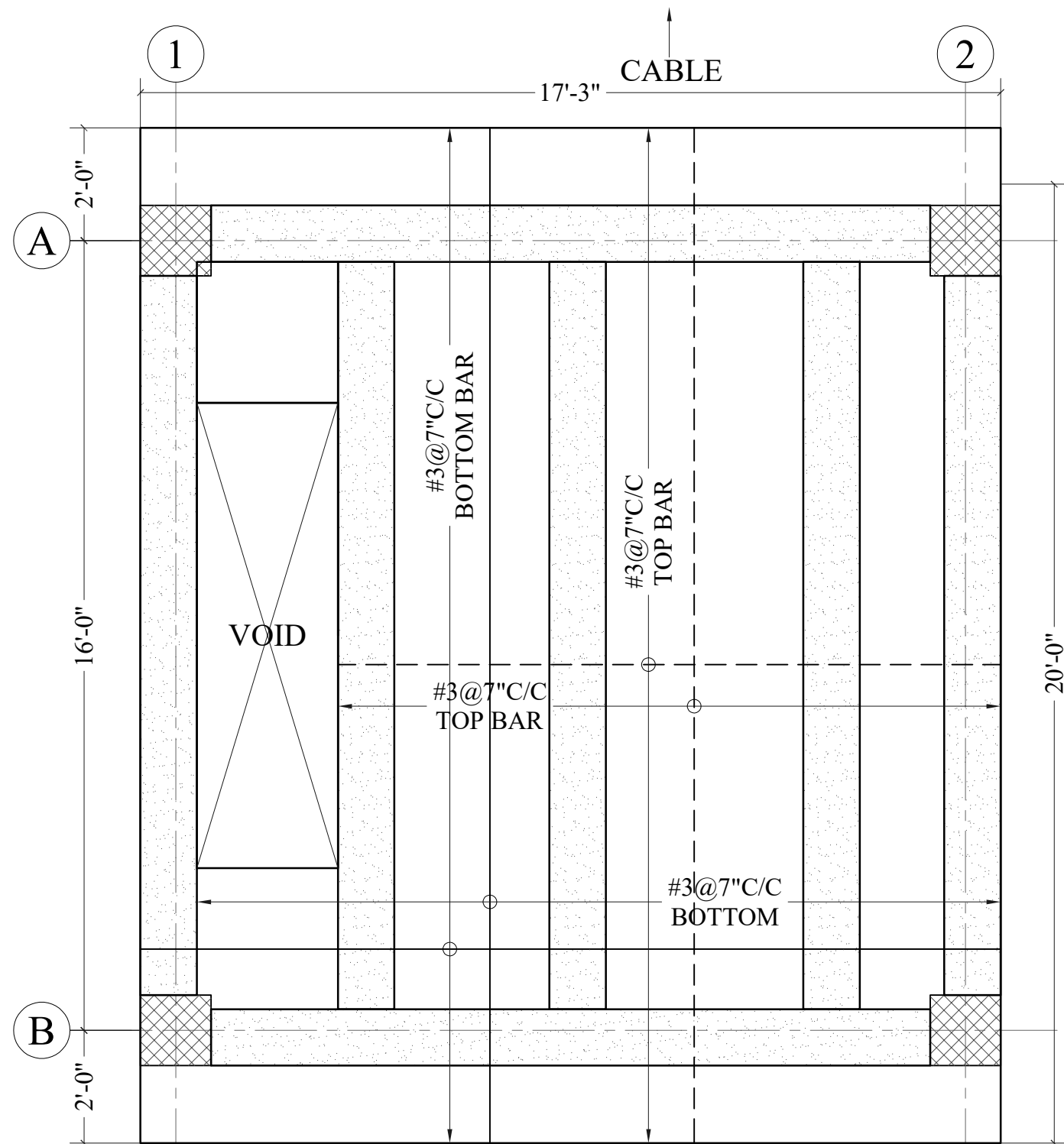
DESIGNED BY: Engr. Asharib	DATE: Aug. 2025
CHECKED BY: Engr. Asharib	
DRAWING NO: 003 ST	REV: 0
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FIFTH FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" **LEV. + 40'.00**



ROOF FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0" **LEV. + 48'.00**



ROOF FLOOR SLAB REINFORCEMENT PLAN
SCALE: 3/8"=1'-0" **LEV. + 48'.00**

CLIENT:

PROJECT:

NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

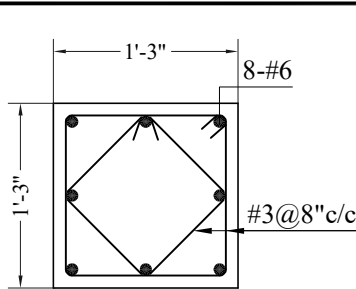
REVISIONS:

No.	DESCRIPTION	DATE

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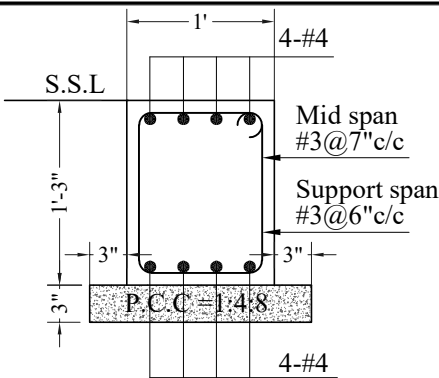
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**FIFTH FLOOR FRAMING,
ROOF FLOOR FRAMING
AND ROOF FLOOR SLAB
REINFORCEMENT PLAN**

DESIGNED BY: Engr. Asharib	DATE: Aug. 2025
CHECKED BY: Engr. Asharib	
DRAWING NO: 004 ST	REV: 0
SCALE (A3): 1/4"=1'-0"	SHEET: 1/1



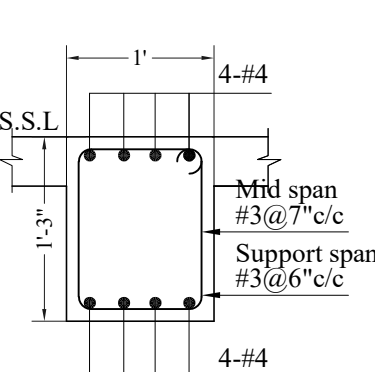
X-SECTION OF
COLUMN C1

SCALE: 3/4"=1'



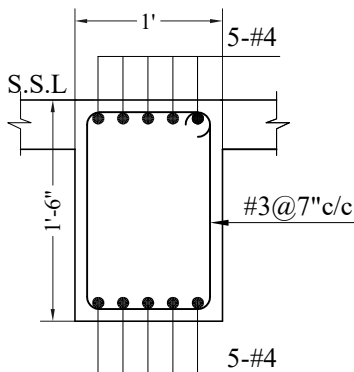
BEAM PB-1

SCALE: 3/4"=1'



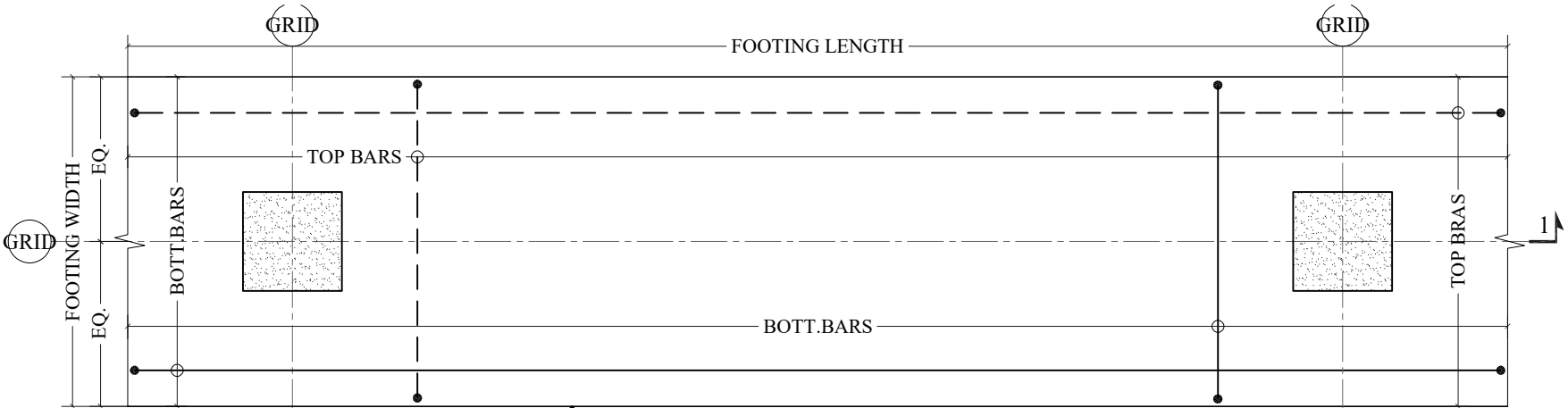
BEAM B-1

SCALE: 3/4"=1'



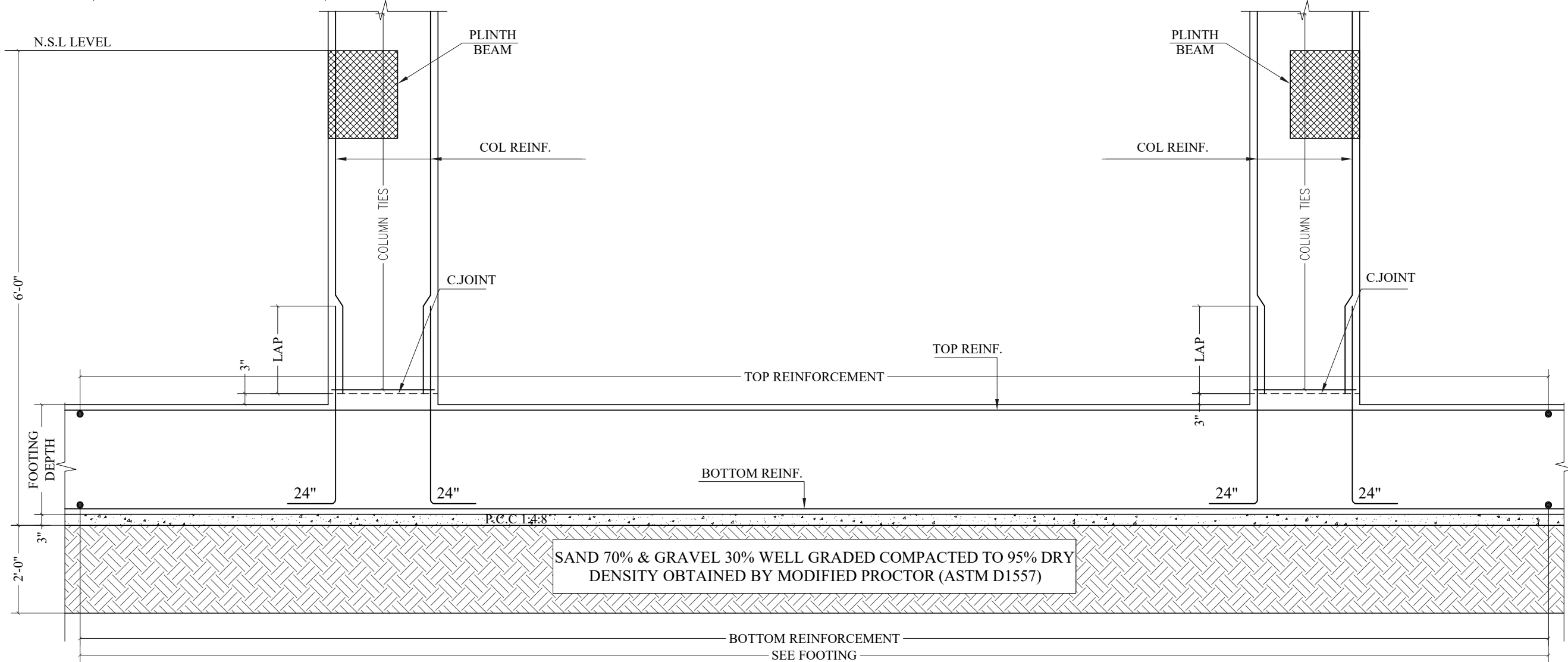
BEAM B-2

SCALE: 3/4"=1'



TYPICAL COMBINE FOOTING PLAN

1
-



SAND 70% & GRAVEL 30% WELL GRADED COMPACTED TO 95% DRY DENSITY OBTAINED BY MODIFIED PROCTOR (ASTM D1557)

TYPICAL SECTIONAL DETAIL OF
COMBINE FOOTING

CLIENT:

PROJECT:

NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

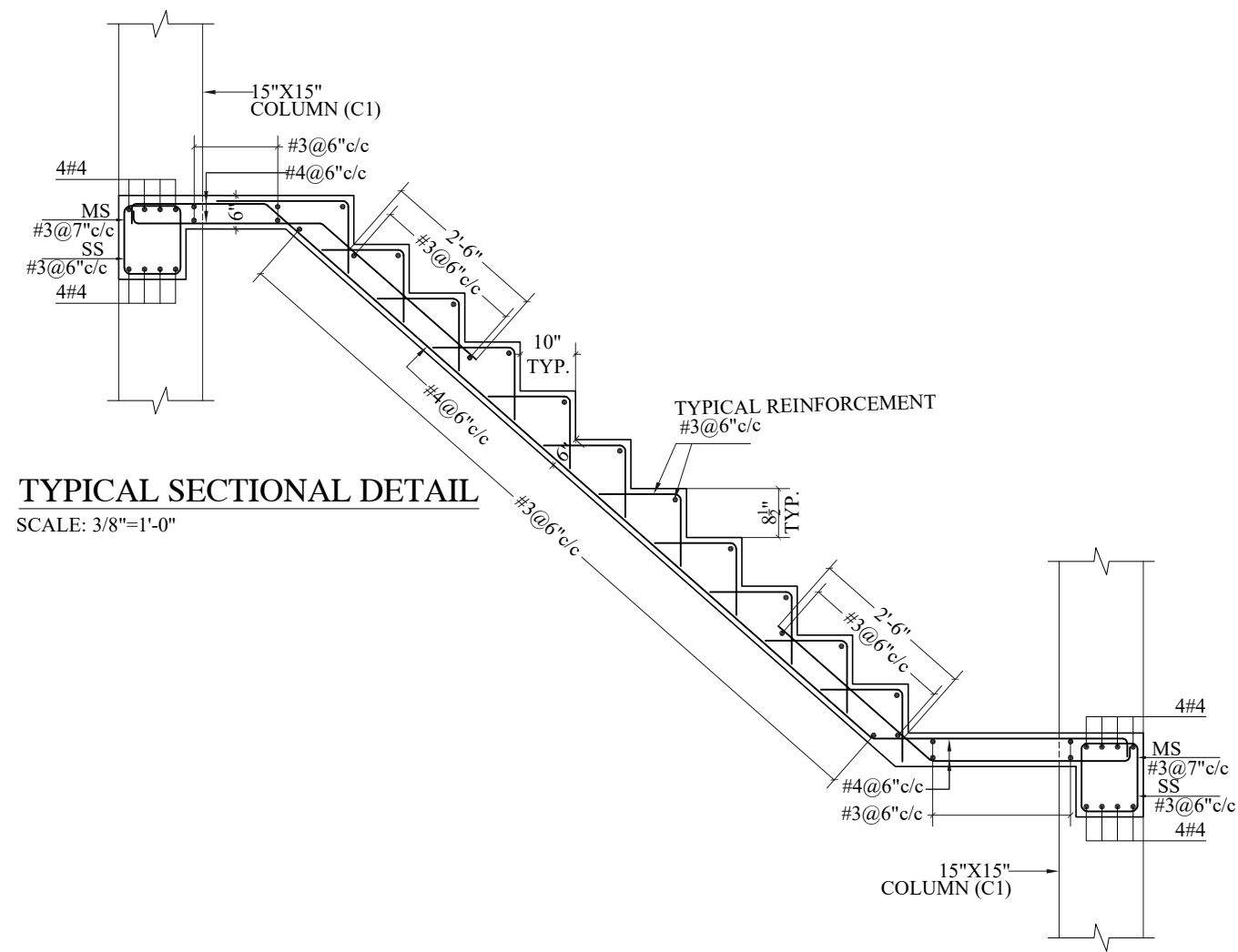
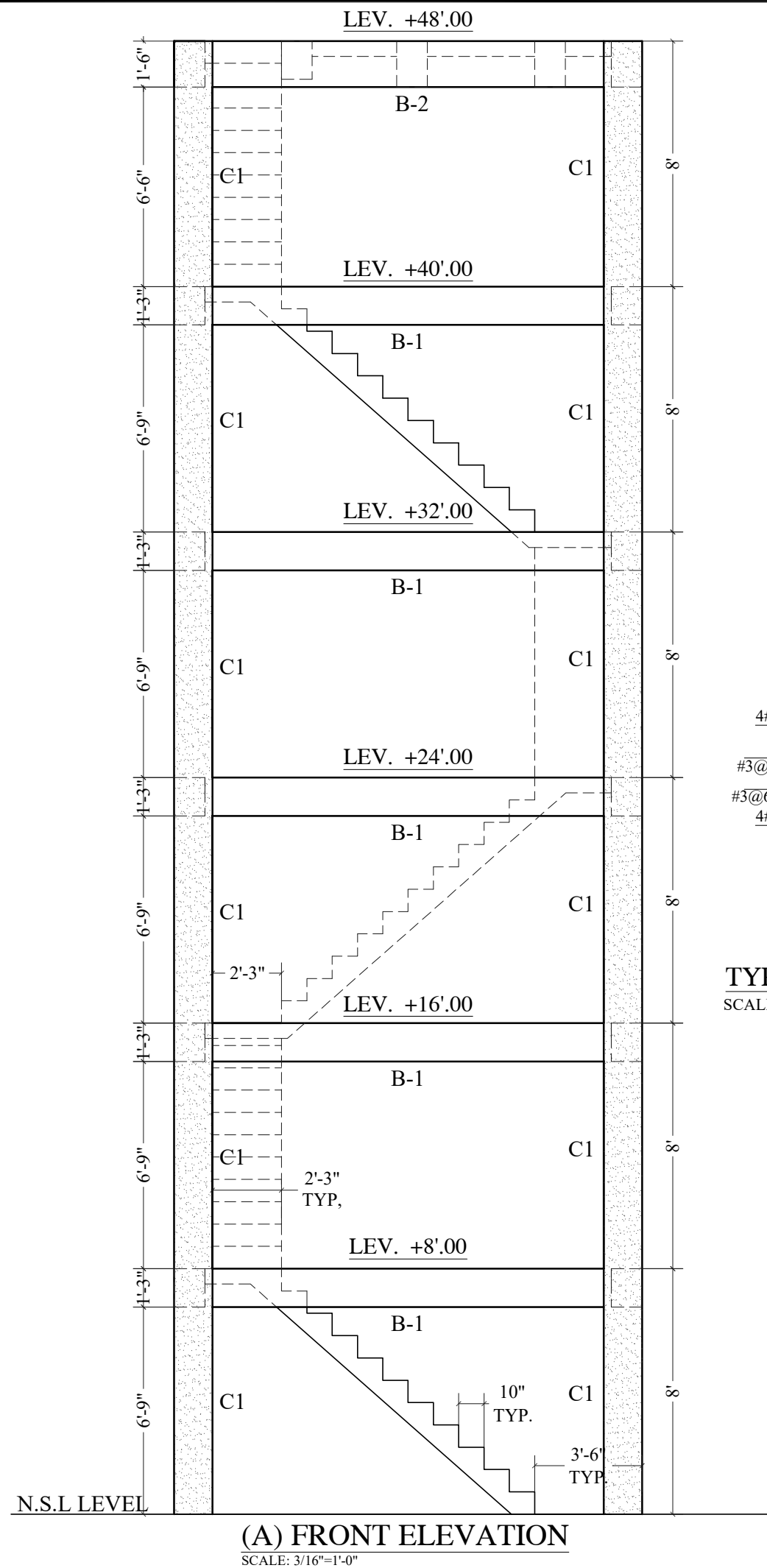
REVISIONS:

No.	DESCRIPTION	DATE

DRAWING TITLE:

REINFORCEMENT
SECTIONAL DETAILS

DESIGNED BY: Engr. Asharib	DATE: Aug. 2025
CHECKED BY: Engr. Asharib	REV: 0
DRAWING NO: 005 ST	SHEET: 1/1
SCALE (A3): 1/4"=1'-0"	



CLIENT:		
PROJECT:		
NOTES: 1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.		
REVISIONS:		
No.	DESCRIPTION	DATE
///		
DRAWING TITLE: STAIR ELEVATION & REINFORCEMENT DETAIL		
DESIGNED BY: Engr. Asharib	DATE: Aug. 2025	
CHECKED BY: Engr. Asharib	REV: 0	
DRAWING NO: 006 ST	SHEET: 1/1	
SCALE (A3): AS SHOWN		