



SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

**SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
M. Arch (Sustainable Architecture)**

**PROFESSIONAL TRAINING (S89APT)
JUL 2022 - AUG 2022**

Name of the Student : Akshitha Reddy K

Semester : III

Reg No. : 41890004

Batch : 2021-2023



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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

M. Arch (Sustainable Architecture)

VIVA-VOCE EXAMINATION

This is to certify that the Professional Training Report (S89APT) is the work of Akshitha Reddy K who had undergone training in Green Evolution and has been monitored by the continuous assessment during Jul 2022 to Aug 2022.

Dr. Devyani Gangopadhyay
HOD AND DEAN

Submitted for Viva voce Examination held on 20/12/2022

Internal Examiner

External Examiner



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DECLARATION

I Akshitha Reddy K hereby declare that this Professional Training Report Jul 2022 to Aug 2022 done by me under the guidance of Ar. Anupama Mohanram is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 20/12/2022

PLACE : Chennai



SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to Board of Management of **SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay Dean, School of building and Environment** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to **Ar Anupama Mohanram** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my Training.

I would also like to express my sincere thanks to Ar. Catherine Selvaraj (Internal Co-ordinator) for her valuable guidance, during the entire Professional Training period.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department of Architecture who were helpful in many ways for the completion of the project.

JOINING LETTER



To,
K. Akshitha Reddy
Flat No.9, Krishna Vihar,
Ai Block, No.132,
Anna Nagar, Chennai - 600040
Email: akshitha.kareti@gmail.com
Mobile: 9445897845

June 28th, 2022

Dear Akshitha,

We are pleased to offer you an internship with Green Evolution on the following terms and conditions:

- 1. Designation:** Architectural Intern
- 2. Internship period:** Through the month of July, 2022

We welcome you to the organization and look forward to a mutually rewarding association.

For Green Evolution Architectural Consultancy

A handwritten signature in purple ink, appearing to read "anupama".

Anupama Mohanram M.Arch, LEED AP

Co-Founder and Head of Architecture

SCHOOL OF BUILDING & ENVIRONMENT, DEPARTMENT OF ARCHITECTURE
M. Arch (Sustainable Architecture) Batch 2021-2023
Continuous Assessment Report for Professional training

(Continuous progress report of the trainee architect/Project Manager for the period of 15 working days in the office to be submitted to HOD)

1. Name of the office / organization :	Green Evolution
2. Address & Contact Number	: Workflo greeta towers, Perungudi, Chennai, 9940051499
3. Name of the student	: Akshitha Reddy K
4. Duration	: From 11 July 2022 To 29 July 2022
5. Total No. of days	: 15 days
6. Evaluation of Performance criteria shall be on	

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month;

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	*				
Skillsets related to project management		*			
Design Management	*				
Understanding the Triple Constraints					*
Observation during Site Visits		*			
Understanding of construction details	*				
Understanding of Construction sequences	*				
Site Supervision / Discussion with clients	*				
Adherence to Time schedule		*			
Quantitative aptitude		*			
Documentation skills	*				
Coordination with other consultants	*				

Overall Grading*

A

(A – 8.0, B – 7.0, C – 6.0, D – 5.5, E – 5.0, F – <5)

7. Any other Remarks :-----

8. Signature of the
Head of the Office /
Organization (With Seal)



Green Evolution Architectural Consultancy
No.43/2, 7th Cross Street,
Besant Nagar, Chennai - 600 090
Landline: 044 - 24411245

SCHOOL OF BUILDING & ENVIRONMENT, DEPARTMENT OF ARCHITECTURE
M. Arch (Sustainable Architecture) Batch 2021-2023
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2. Address & Contact Number	: Workflo greeta towers, Perungudi, Chennai, 9940051499
3. Name of the student	: Akshitha Reddy K
4. Duration	: From 1 August 2022 To 19 August 2022
5. Total No. of days	: 15 days
6. Evaluation of Performance criteria shall be on	

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month;

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	*				
Skillsets related to project management		*			
Design Management	*				
Understanding the Triple Constraints					*
Observation during Site Visits		*			
Understanding of construction details	*				
Understanding of Construction sequences	*				
Site Supervision / Discussion with clients	*				
Adherence to Time schedule		*			
Quantitative aptitude		*			
Documentation skills	*				
Coordination with other consultants	*				

Overall Grading*

A

(A – 8.0, B – 7.0, C – 6.0, D – 5.5, E – 5.0, F – <5)

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WORK DIARY

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
1	The School (Staff quarters)	Site visit and meeting	16	The School (Staff quarters)	Site visit
2	The School (Staff quarters)	Site visit @ Thalambur	17	The School (Staff quarters)	Plumbing and electrical layout
3	GE Office	3D detailing	18	General	Indoor Plant list mantainance manual
4	GE Office	3D detailing	19	GE Office	Rain water calculation
5	GE Office	3D detailing	20	GE Office	Team meeting and discussion of next steps
6	The School (Staff quarters)	Plumbing and electrical fixtures selection	21	The School (Staff quarters)	Site visit
7	The School (Staff quarters)	Plumbing and electrical layout	22	GE Office	Compound wall detail
8	The School (Staff quarters)	Plumbing and Electrical layout	23	The School (Staff quarters)	Site visit
9	The School (Staff quarters)	Client meeting and Site visit	24	GE Office	Team meeting
10	Prospective client proposal	Landscape zoning	25	General	Indoor Plant list mantainance manual
11	Prospective client proposal	Landscape zoning	26	Prospective client proposal	Landscape zoning
12	General	Indoor Plant list mantainance manual	27	Prospective client proposal	Landscape zoning
13	GE Office	Team meeting and review	28	GE Office	3D detailing
14	GE Office	Analysis of material options	29	The School (Staff quarters)	Site visit
15	GE Office	Team meeting and discussion of next steps	30	GE Office	Team meeting and discussion

Chief Architect Signature:



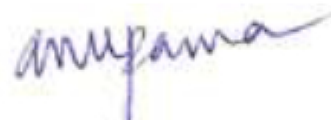
Office seal:

Green Evolution Architectural Consultancy
No:43/2, 7th Cross Street,
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Chief Architect Signature:



Office seal:

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COMPLETION LETTER



To:
The Head of the Department
Department of Architecture,
School of Building & Environment
Sathyabama Institute of Science and Technology
(Deemed to be University)
Rajiv Gandhi Salai, Jeppiaar Nagar.
Chennai-600 119, Tamil Nadu

Date: August 20, 2022

Dear Sir/Madam,

This letter is to verify that Akshitha Reddy K, Second year M.Arch (Sustainable Design) student of Department of Architecture, School of Building & Environment Sathyabama Institute of Science and Technology, has successfully completed her internship in our firm from July 11, 2022 until July 29, 2022 and from August 01, 2022 until August 19, 2022.

For Green Evolution Architectural Consultancy

A handwritten signature in blue ink, appearing to read "anupama".

Green Evolution Architectural Consultancy
No:43/2, 7th Cross Street,
Besant Nagar , Chennai - 600 090
Landline: 044 - 24411245

Anupama Mohanram
Proprietor
COA reg No.: CA/2006/38052

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	PROJECT NAME	Pg.No
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About Green Evolution

The firm specializes in designing beautiful, energy efficient and earth friendly spaces that demonstrate the human ability to adapt and live in harmony with nature.

Design Philosophy

Customized: a design that embodies the institution's philosophy and supports its vision and mission

Sustainability: a campus / building that is energy, water and resource efficient; and built with eco-friendly materials

Ergonomics: spaces and facilities that are designed to ensure ease of use and well-being of occupants

In touch with nature: spaces which weave indoors and outdoors to foster close contact with nature

Safety: carefully designed facilities that provide a safe environment for occupants

Accessibility: thoughtfully designed facilities that allow access to occupants of various abilities

Aesthetics: that will pique the students' interest and inculcate an appreciation for art

Contextual relevance: designs that are relevant to pertinent geographic, climatic & cultural factors

Green Highlights

- Founded by professionals with global architectural experience
- Felicited in 2015 by the Indian Green Building Council for our contribution to the green building movement
- Provided advisory services for 45 Lakh square feet of green projects thus far
- Designed 10 Lakh square feet of green spaces thus far
- Team with extensive green building accreditation (LEED / GRIHA / IGBC)



Education

Master of Architecture (M.Arch)

Kansas State University, Manhattan, Kansas, USA

Bachelor of Architecture (B.Arch)

School of Architecture and Planning, Anna University, Chennai, India

Professional Experience

Founder and Head, 2008-present

Green Evolution Architectural Consultancy, Chennai

Firm profile: Provides architecture and green building consulting services.

Project Architect 1997-2007

Cordogan Clark and Associates, Chicago, USA

Firm profile: Provides architecture, landscaping and interior design services for multiple project types in the United States and China



SEARCH begins here....
Sustainable Excellence through Architecture

Anupama Mohanram
Co-founder and Head of Architecture

Areas of Speaking Expertise

- Environmentally sustainable architecture and green building design
- Passive solar and climate responsive design
- Vernacular influences in sustainable architecture
- Green building materials

Certifications

LEED® Accredited Professional

Certified by the United States Green Building Council (USGBC)

Certified GRIHA Evaluator and Trainer

Anupama Mohanram is an architect with a passion for environmental sustainability. During her 10-year practice in the USA, Anupama was involved in the design of multiple design projects including schools, offices, residences and banks. Her interest in nature and green technologies spurred her to obtain a LEED AP accreditation before moving back to India to start her own architecture firm in 2008. Anupama leverages her rich international experience in environmentally sustainable architecture to design and construct green buildings in the Indian context.

The background features three overlapping circles of varying sizes, centered in the upper half of the image. The circles are light gray and have a thin stroke, creating a minimalist geometric design.

INDOOR PLANTS

A LIST OF EASY TO CARE AIR PURIFYING PLANTS FOR HOMES AND OFFICES

GUIDE TO THIS HANDBOOK



Soil Type

Fertile, moist soil	A mix of garden soil with sand, coco peat and compost that is fertile, rich with nutrients, well-draining and can retain moisture.
Sandy soil	A mix of soil, sand and perlite that is light and drains quickly.
No soil	The plant does not require any soil medium



Sunlight

Full sun	At least 6 hours of direct sun daily
Bright indirect	4 to 6 hours of direct sun daily
Partial sun	2 to 4 hours of direct sun daily
Shade	Less than 2 hours of sun daily



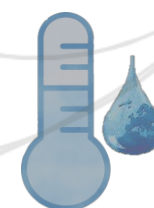
Toxicity

Very high	Eating parts of these houseplants can be life threatening.
High	When consumed severe vomiting, diarrhea, stomach pains, skin irritations and breathing difficulties can occur
Moderate	Ingestion may cause minor symptoms such as rash, vomiting or diarrhea
Mild	The plant can cause mild irritation on touch of hairy leaves or sap
Non-toxic	The plant is non-toxic to touch and oral ingestion



Watering

High	Always keep the soil moist. Water daily
Moderate	Water a plant when the topsoil in the pot (1 to 2 inch) feels dry to touch. Water once in 3days
Low	Water a plant when the topsoil in the pot (3 to 4 inch) feels dry to touch. Water once a week
Very low	Water once in 2 weeks or only when plant is drooping.



Humidity

Very high	65% or more
High	50 - 65%
Moderate	30 - 50%. Normal indoor humidity level
Low	Less than 30%



Plant Life

Annual	The plant will germinate, bloom and die within a year
Biennial	The plant takes two years to complete its life cycle
Perennial	The plant lives for three years or more.



Aloe Vera

Aloe barbadensis miller



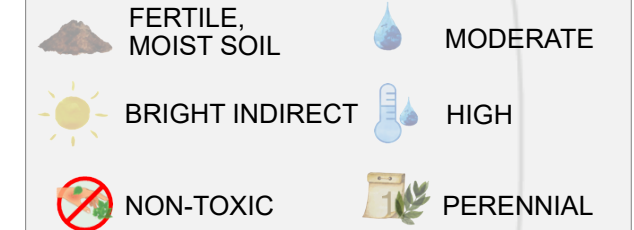
BENEFITS:

- Removes formaldehyde and benzene
- Aloe gel has medical properties



Areca Palm

Dypsis lutescens



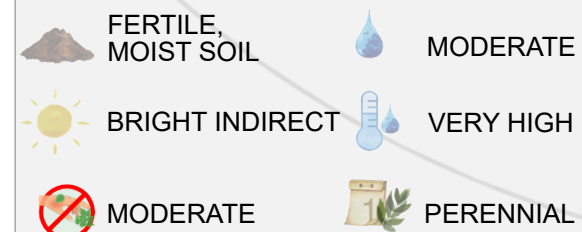
BENEFITS:

- Cleans air borne toxins
- Removes formaldehydes, benzene, trichloroethylene



Anthurium

Anthurium andraeanum



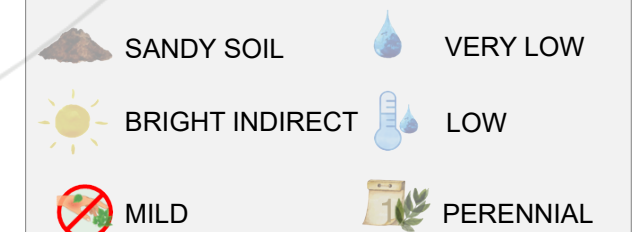
BENEFITS:

- Removes ammonia, formaldehyde, xylene and toluene



Arrowhead

Syngonium podophyllum



BENEFITS:

- Removes formaldehyde, benzene, toluene and xylene
- Adds humidity to indoor environment



Boston Fern

Nephrolepis exaltata



FERTILE,
MOIST SOIL



MODERATE



PARTIAL SUN



HIGH



NON-TOXIC



PERENNIAL

BENEFITS:

- Removes formaldehyde
- Adds humidity to indoor environment



Money plant

Epipremnum aureum



FERTILE,
MOIST SOIL



MODERATE



PARTIAL SUN



HIGH



MILD



PERENNIAL

BENEFITS:

- Improves indoor air quality
- Removes formaldehydes, benzene and carbon monoxide



Chinese Evergreen

Aglaonema ssp.



FERTILE,
MOIST SOIL



MODERATE



BRIGHT INDIRECT



HIGH



MODERATE



PERENNIAL

BENEFITS:

- Emits high oxygen and purifies indoor air
- Removes formaldehydes and benzene



Snake Plant

Sansevieria trifasciata



FERTILE,
MOIST SOIL



LOW



BRIGHT INDIRECT



MODERATE



MILD



PERENNIAL

BENEFITS:

- Absorbs toxins such as nitrogen oxides and formaldehyde



Rubber Plant

Ficus elastica



FERTILE,
MOIST SOIL



LOW



BRIGHT INDIRECT



HIGH



MILD



PERENNIAL

BENEFITS:

- Emits high oxygen
- Removes formaldehyde, benzene and trichloroethylene



Lucky Bamboo

Dracaena sanderiana



NO SOIL



VERY LOW



PARTIAL SUN



HIGH



MODERATE



PERENNIAL

BENEFITS:

- Purifies indoor air
- It brings positive energy and good luck



Song of India

Dracaena reflexa



FERTILE,
MOIST SOIL



LOW



BRIGHT INDIRECT



MODERATE



MILD



PERENNIAL

BENEFITS:

- Cleans air borne toxins
- Removes formaldehyde, benzene and trichloroethylene



Peace Lily

Spathiphyllum wallisii



FERTILE,
MOIST SOIL



MODERATE



BRIGHT INDIRECT



HIGH



MILD



PERENNIAL

BENEFITS:

- Removes formaldehyde, benzene, toluene and xylene
- Adds humidity to indoor environment

The background features three overlapping circles of different sizes, centered in the upper half of the image. The circles are light gray and overlap each other, creating a sense of depth and movement. The largest circle is on the left, the medium one is in the center, and the smallest one is on the right.

AMPA SKYWALK

A CONCEPT FOR LANDSCAPE DESIGN



THE MALL INTERIOR- A CONCEPT NOTE

The problem with current malls is that there is no place for wives, husbands and parents of compulsive shoppers to wait in peace. Or, even for shoppers to take a break while sipping a cup of coffee.

There is a need for design of spaces within large malls where people can take a break in a protected seating space, talk on the phone or charge their phones.

Incorporation of air-purifying indoor plants will help buffer noise as well as clear the air

The Corridors

A combination of built-in **planter and seating at intervals** in pockets along the corridor in the curved extensions shown in design and in corners at restroom areas, lift lobby. Extensions of metal cable trellis to frame the seating. This will provide a place for customers to wait amid a screen of vegetation.

Seaters to incorporate **power points to charge mobile phones**.



CONCEALED AUTOMATED DRIP IRRIGATION FOR PLANTS



A VIEW FROM ATRIUM

The Central Atrium

A combination of built-in planters and seating that acts as breaks within the open atrium space, provides customers **a place to sit and relax** and also incorporates the **much needed vegetation** of selected air-purifying indoor plants



AS VISUAL BREAKS
LEDGES TO SERVE AS TABLETOPS FOR LAPTOPS, COFFEE MUGS ETC.



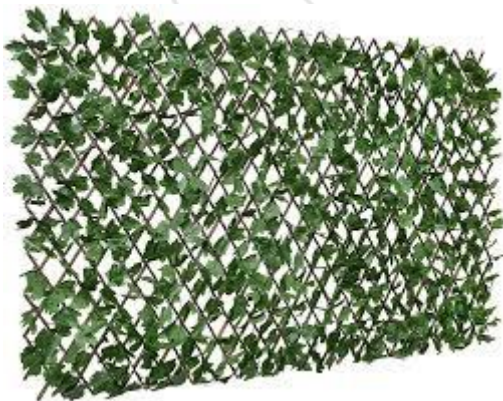
UNDER ESCALATORS

A buffer of trees along the outer compound wall to filter out the noise and heat

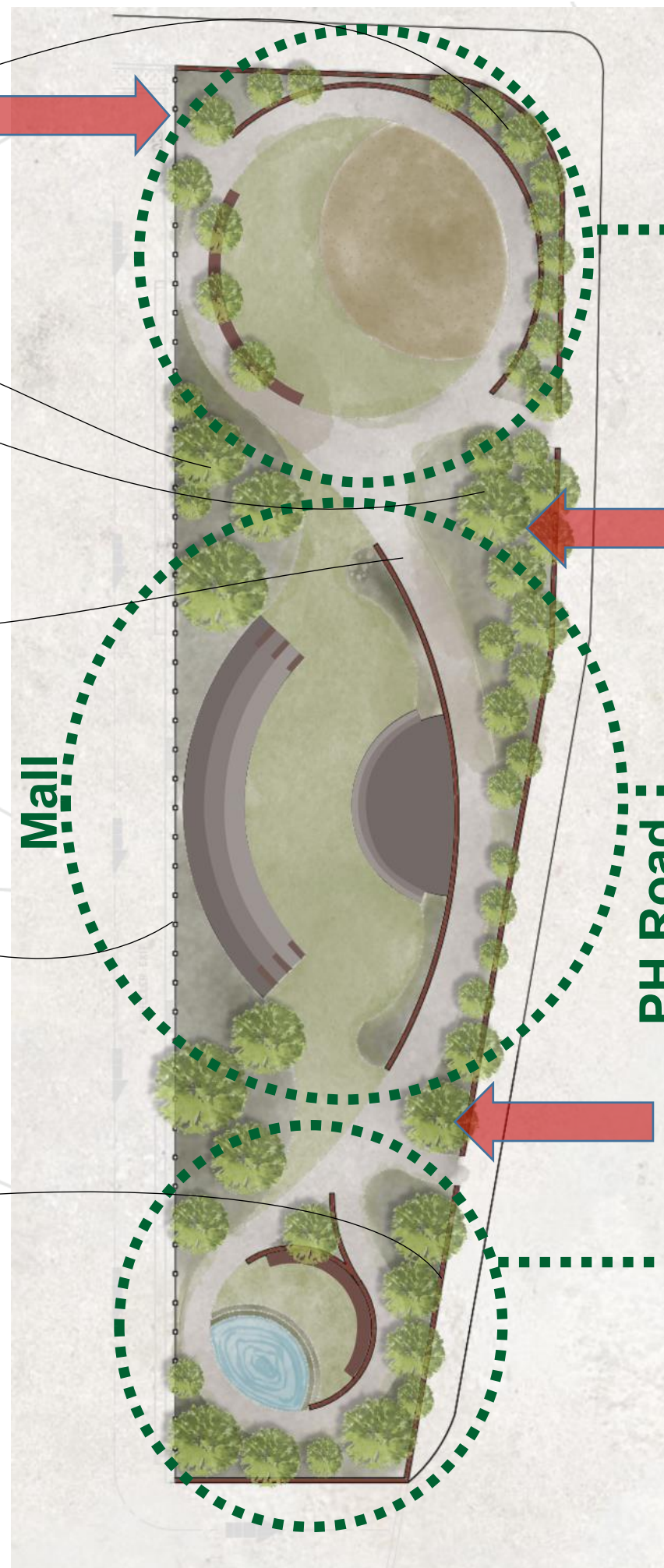
Clumps of dense native trees in the pockets formed by the organically shaped pathways

An organic pathway that wraps around the periphery of the 3 zones and leads to the central zone

A short green trellis fence (1m height) with creepers at the mall side that allows visual access



Creepers weeping from the side



ACTIVITY ZONE

Children's play area with adequate seating for parents and other groups

CENTRAL EVENT ZONE

A congregation space with a raised platform will also serve as a stage for performances with 3-tier open air theater seating

QUIET ZONE

A space for contemplation and early morning meditation with small water body to hear the sound of water

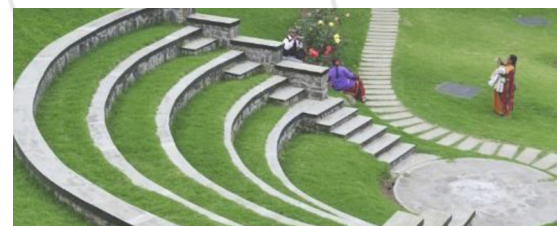
OSR- ZONING AND PLANNING



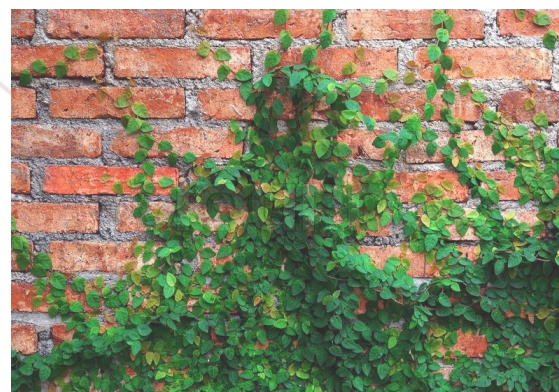
CENTRAL ZONE



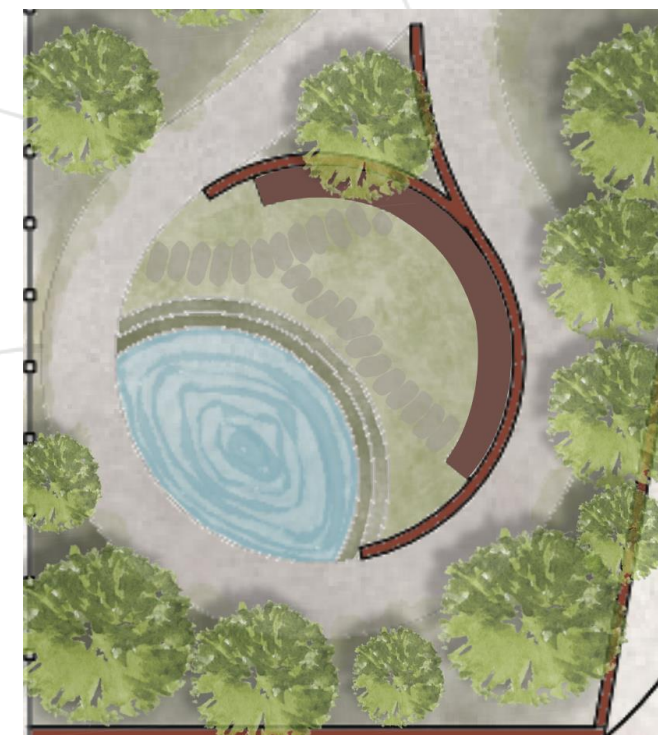
Stepping stone connecting pathways



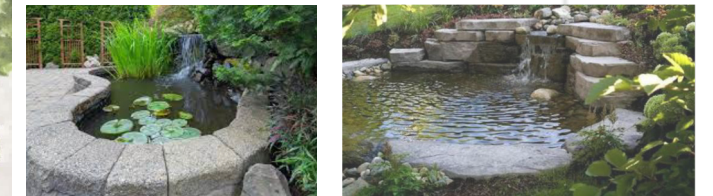
Built-in OAT seats
4.5m deep raised stage with flag pole



An interesting stone and plant screen wall as backdrop



A screen wall that is tall towards the highway and that gradually becomes a low-fence with built-in seat within



Lily pond with water fountain to create calm water sound

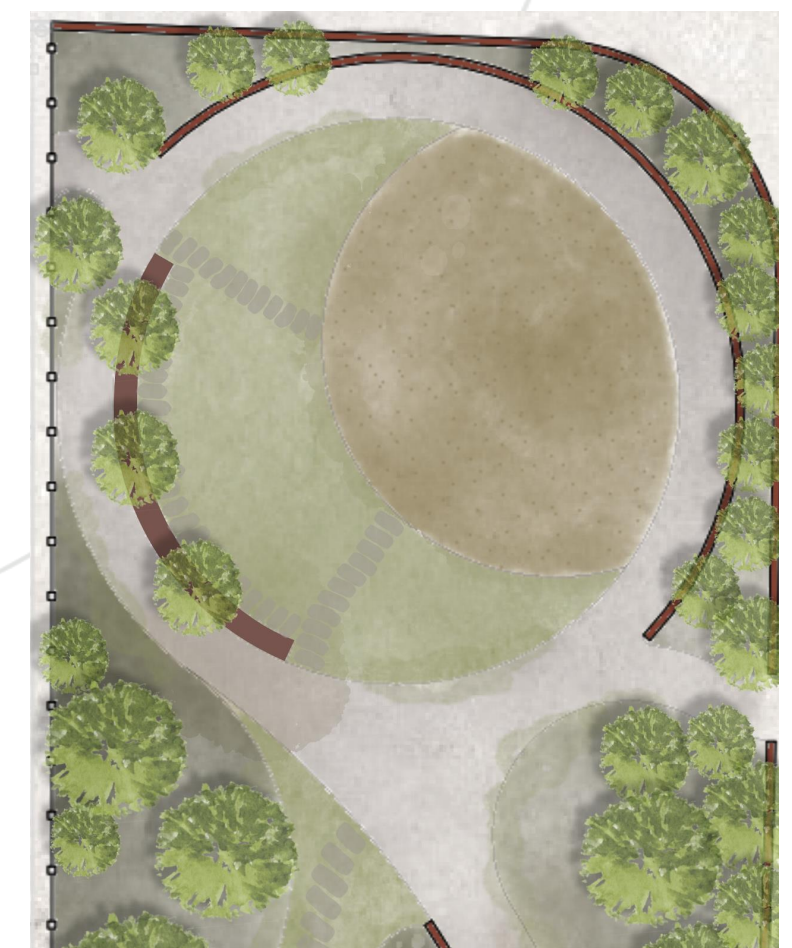
QUIET ZONE



Built-in seating



Play equipments that are rustic and different



ACTIVITY ZONE

The background features three concentric circles in a light gray color. A horizontal band, consisting of a light gray top half and a white bottom half, spans the width of the image. The text is centered within the white portion of this band.

STAFF QUARTERS-
THE SCHOOL
KRISHNAMURTI FOUNDATION INDIA
PLUMBING AND ELECTRICAL LAYOUT AND SITE VISIT

WATER MANAGEMENT

KEY STRATEGIES TO MINIMIZE POTABLE WATER USE:

- Minimize water use: install water saving fixtures
- Maximize rain water harvesting
- Treat waste water generated on site
- Reuse treated waste water for gardening

Occupancy considered: 20-25 persons
Estimated water use per day: 3000 to 3750 litres
Estimated black water per day: 200 to 250 litres
Estimated grey water per day: 2250 litres

WATER SAVER FIXTURES

1. WATER CLOSETS:

- Parryware or any reputed brand water closets with dual flush operation



WALL HUNG
DUAL FLUSH EWC PARRYWARE
MODEL
CASCADE NXT 4.5/3 LITRES PER
FLUSH



FLOOR MOUNTED
DUAL FLUSH EWC PARRYWARE
MODEL
NIAGARA- 4/2 LITRES PER FLUSH



2. HEALTH FAUCETS:

- Jaquar or any reputed brand health faucets with a flow rate of 6LPM

JAQUAR 563 GA (6 LPM)
(OR)
JAQUAR 573 GA (6LPM)

GREEN SPECIFICATION

3. FAUCETS, MIXTERS AND SHOWERS:

•JAQUAR LYRIC: FLOW RATE CODES: G- 2.5 LPM | GA- 6 LPM | GD - 4 LPM

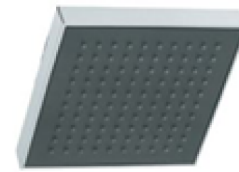


WASH BASIN

38001B-G (FROM COUNTER)
38233K-G (FROM WALL)



TAP WITH HEALTH FAUCET
PROVISION
38041-GD



SHOWERHEADS
1709/ 35495 -GA/ GD



4WAY DIVERTER FOR SHOWER
AND SPOUT:
38421



GENERAL TAP
38037-G



SPOUT
37463-GA/ GD

RAIN WATER HARVESTING

Rain water from roof areas can be brought down via down-take pipes, through rain water filters and routed to the underground sump for reuse for domestic purposes (i.e. use of borewell can be avoided on rainy days).

Rain water filters: **Rainy FL-100** or equivalent
Number required: **3**

Rain water runoff from the ground can be channeled into one percolation pit on site; overflow can be directed out of the plot.

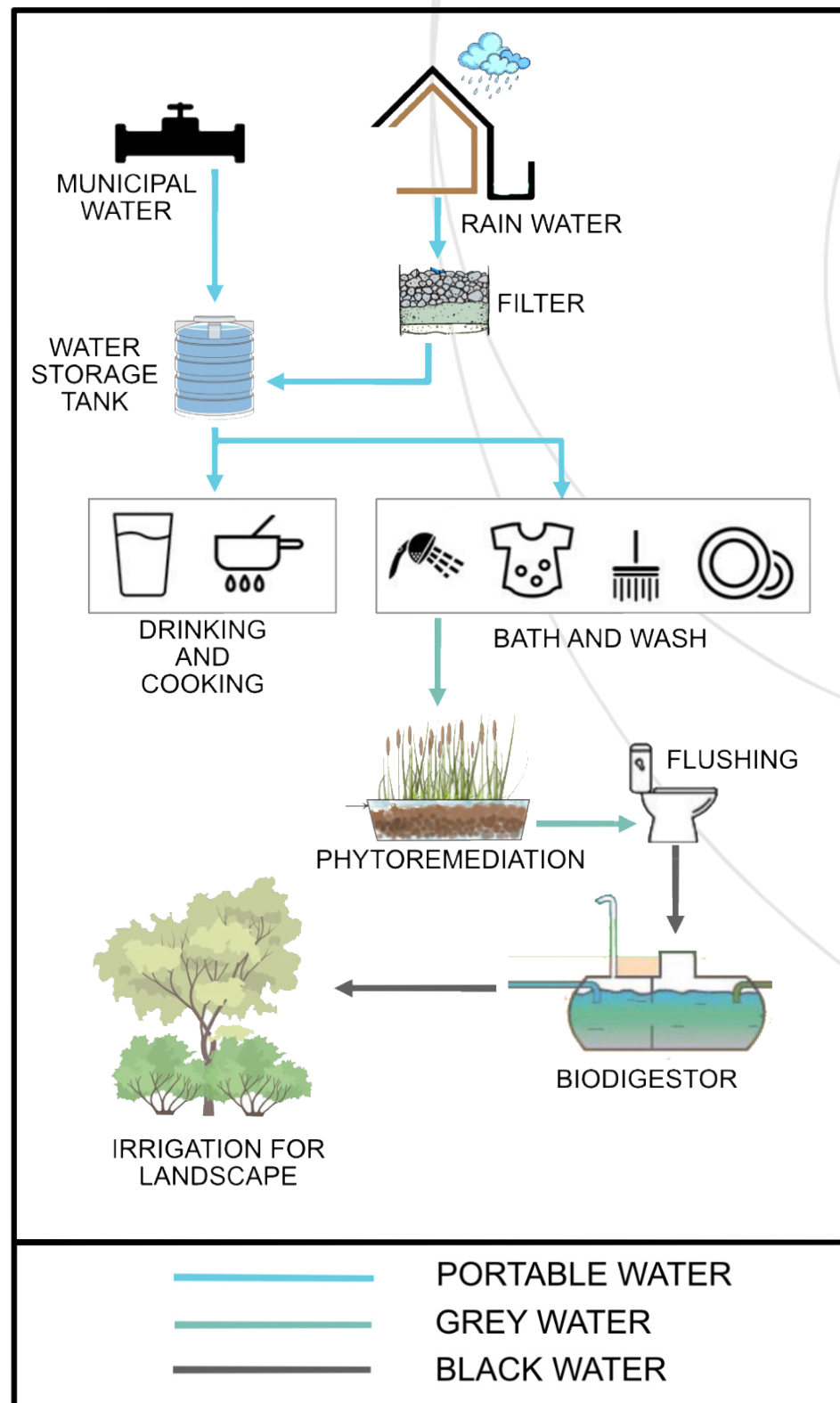
GREEN SPECIFICATION



WASTER WATER TREATMENT AND REUSE



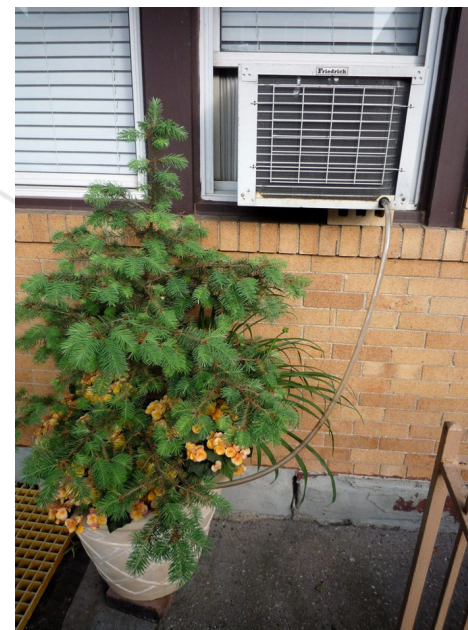
WATER BALANCE CHART



- 1. BLACK WATER: Bio-digester (Futurosan make)**
- 25-user capacity
 - Uses anaerobic bacterial action to treat water
 - Does not require electricity
 - Treated water from the Bio-digester will be directed to Grey water treatment system

2. GREY WATER: Indian Canna bed treatment

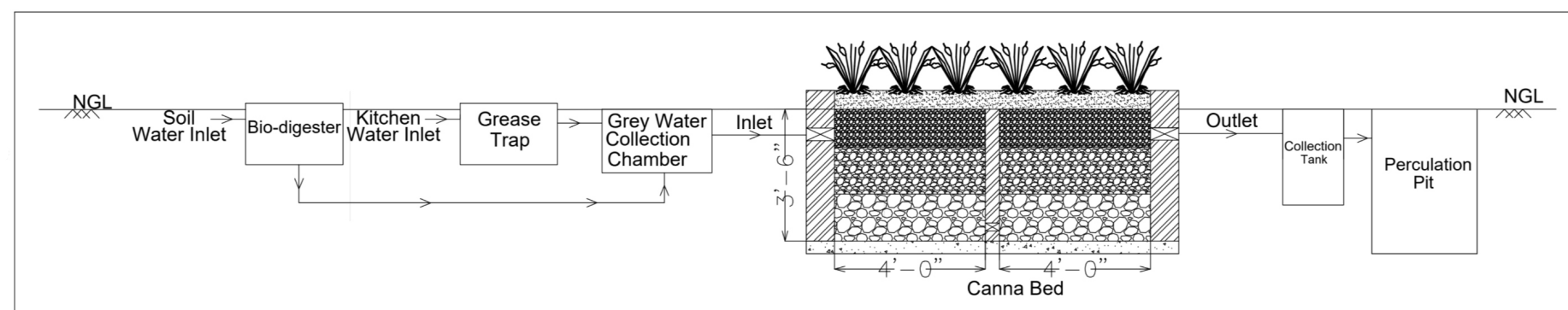
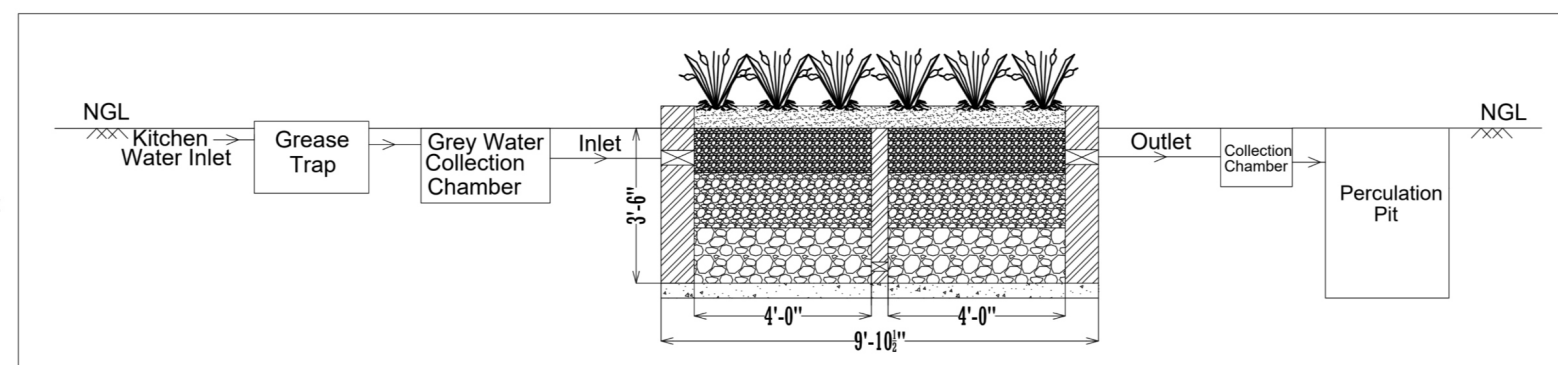
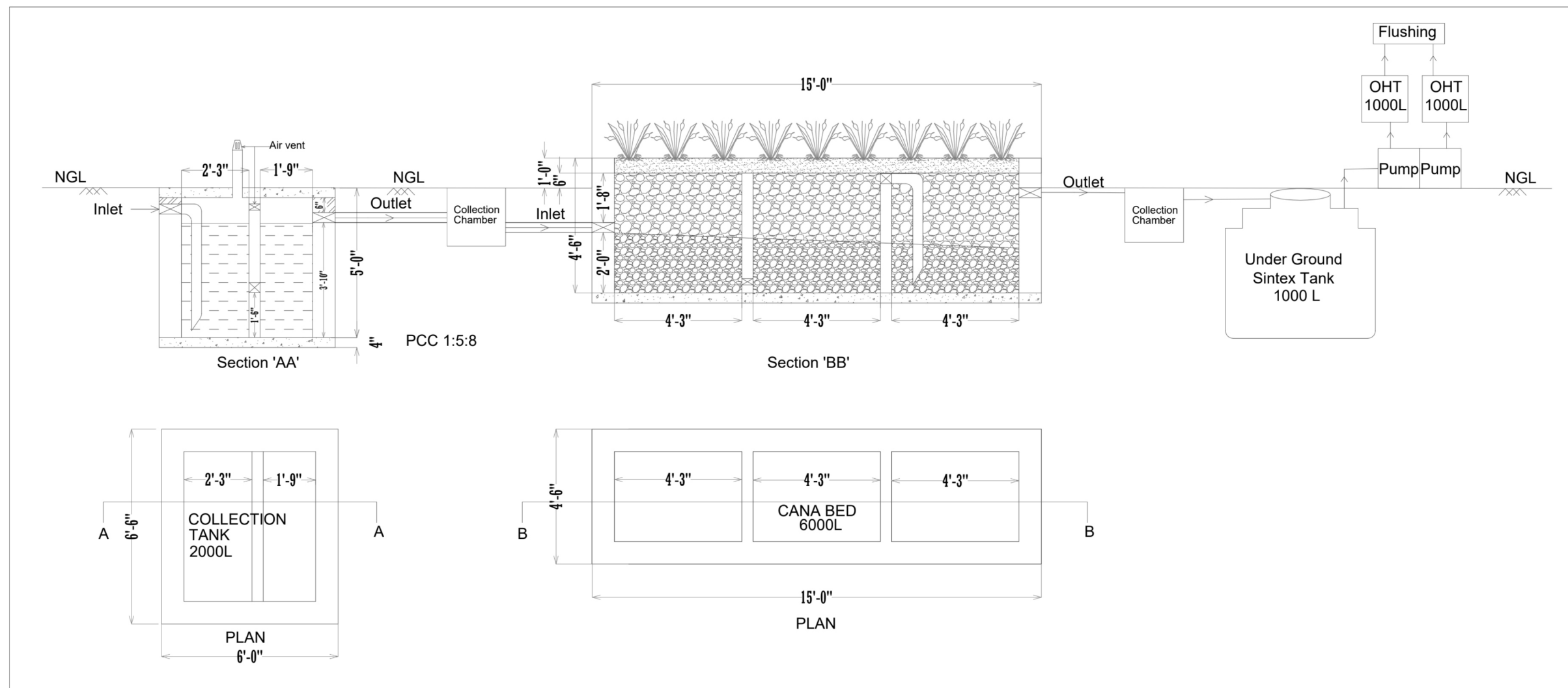
- Uses filtration, bacterial and plant root zone action to treat water
- Does not require electricity
- Treated water can be used for gardening, car washing,



3. AIR CONDITIONING CONDENSATE :

- Condensate water to be reused to irrigate ornamental plants.
- (**Note:** It may contain heavy metals from the air conditioner coils with which it comes in contact, so avoid its use for edible plants)

GREEN SPECIFICATION



TITLE:

ARCHITECTURAL DRAWINGS

PROJECT:

DRAWING TYPE:

**WASTE WATER
MANAGMENT DETAIL**

NOTES / AREA STATMENT:

VERSION / REVISION:

DATE:
20-08-2022

FILE NAME:

RELEASED FOR:

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 ☐ SCHEMATIC
☐ APPROVAL
 ☒ CONSTRUCTION

ARCHITECT:

green evolution
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Colony, Chennai-600090, INDIA
Phone- 044-24411245

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CHECKED BY : ANUPAMA

CLIENT:

SHEET NO.:

SHEET SIZE: A3

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TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

DRAWING TYPE:
PLUMBING PLAN

NOTES / AREA STATMENT:

VERSION / REVISION:

DATE:
17-08-2022



FILE NAME:

PJ157_KFI SQ_20220816.DWG

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☐ APPROVAL ☒ CONSTRUCTION

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AKSHITHA

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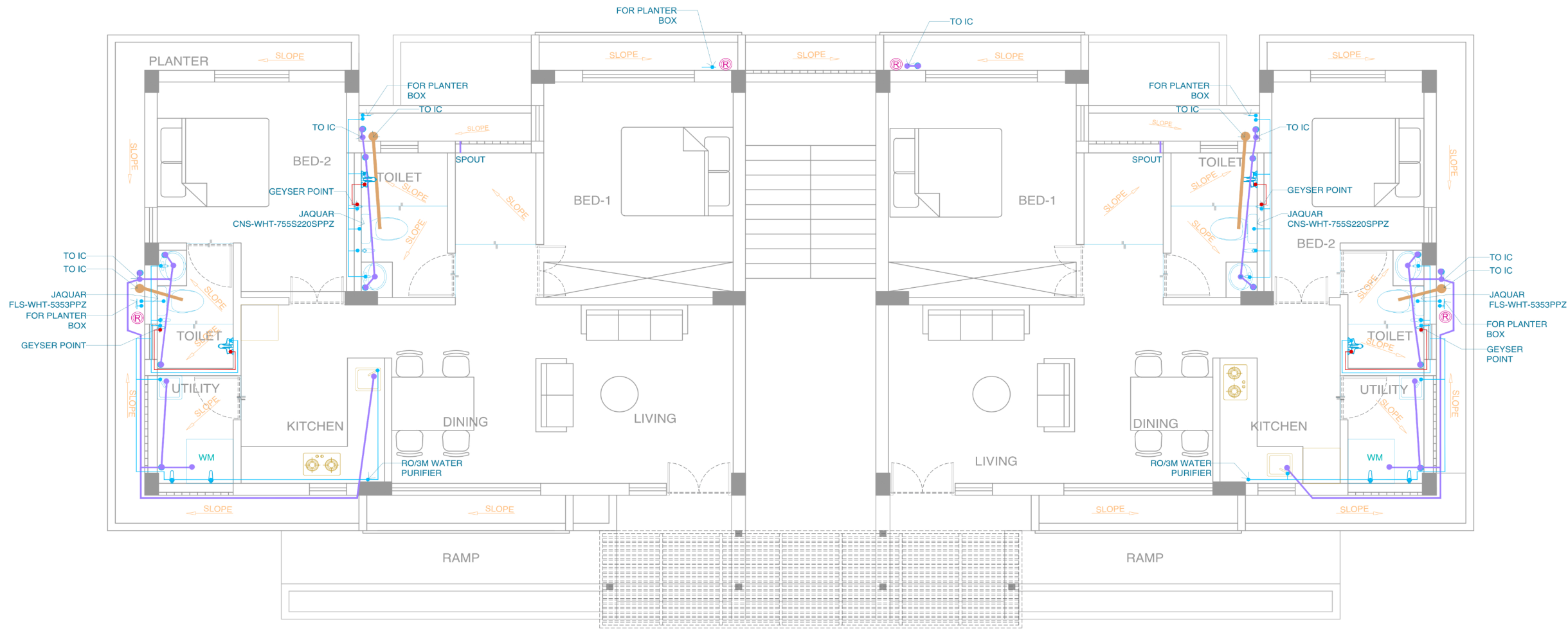
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SHEET SIZE:
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LEGENDS	
IC	INSPECTION CHAMBER
IC	BLACK WATER
IC	INSPECTION CHAMBER GRAY WATER
IC	INSPECTION CHAMBER RAIN WATER
4"	4" SOIL PIPE
2.5"	2.5" GRAY WATER PIPE
1"	1" RECYCLED WATER LINE
CONDENSATE	CONDENSATE FROM AC LINE
1"	1" HOT WATER LINE
1"	1" COLD WATER
6"	6" PIPE FOR RAINWATER
HOT/COLD	HOT/COLD WATER MIXER
EWC	EWC
WASH BASIN	WASH BASIN
FAUCET	FAUCET
DIRECTION OF SLOPE	DIRECTION OF SLOPE
RAIN WATER DOWN SPOT	RAIN WATER DOWN SPOT
RAIN WATER LINE	RAIN WATER LINE
WATER PUMP	WATER PUMP
WALL DRAIN	WALL DRAIN
FLOOR TRAP	FLOOR TRAP
DI	DRIP IRRIGATION
RO	RO WATER PURIFIER
WC	WASHING MACHINE
DW	DISH WASHER

1 GROUND FLOOR PLAN
SCALE:4"=1'

TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

DRAWING TYPE:
PLUMBING PLAN

NOTES / AREA STATMENT:

VERSION / REVISION:

DATE:
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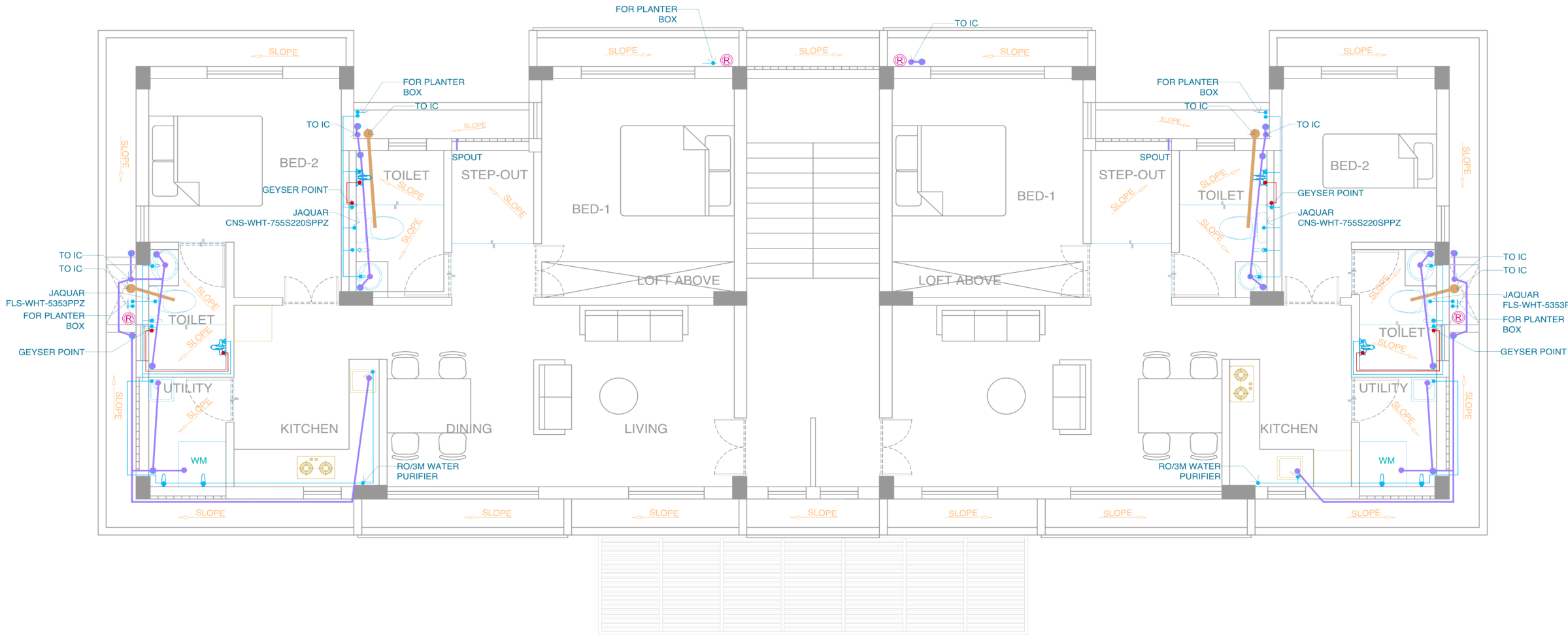
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SHEET SIZE:
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LEGENDS	
IC	INSPECTION CHAMBER
IC	BLACK WATER
IC	INSPECTION CHAMBER
IC	GRAY WATER
IC	INSPECTION CHAMBER
IC	RAIN WATER
4"	4" SOIL PIPE
2.5"	2.5" GRAY WATER PIPE
1"	1" RECYCLED WATER LINE
CONDENSATE	CONDENSATE FROM AC LINE
1"	1" HOT WATER LINE
1"	1" COLD WATER
6"	6" PIPE FOR RAINWATER
HOT/COLD	HOT/COLD WATER MIXER
EWC	EWC
WASH BASIN	WASH BASIN
FAUCET	FAUCET
DIRECTION OF SLOPE	DIRECTION OF SLOPE
RAIN WATER DOWN SPOT	RAIN WATER DOWN SPOT
RAIN WATER LINE	RAIN WATER LINE
WATER PUMP	WATER PUMP
WALL DRAIN	WALL DRAIN
FLOOR TRAP	FLOOR TRAP
DI	DI
DRIP IRRIGATION	DRIP IRRIGATION
RO	RO WATER PURIFIER
WC	WASHING MACHINE
DW	DISH WASHER

1 TYPICAL FIRST & SECOND FLOOR PLAN
SCALE: 4"=1'

TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

DRAWING TYPE:
PLUMBING PLAN

NOTES / AREA STATMENT:

VERSION / REVISION:

DATE:
17-08-2022



FILE NAME:
PJ157_KFI SQ _20220816.DWG

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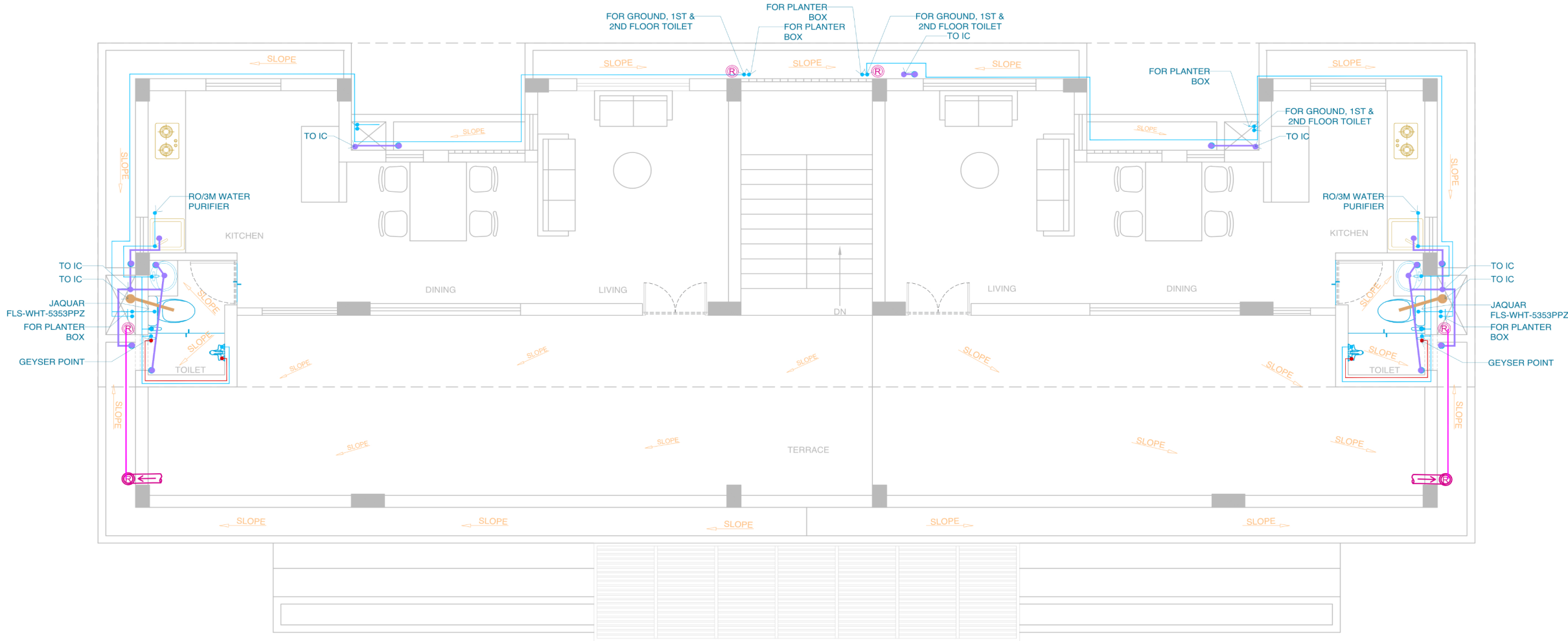
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P-3

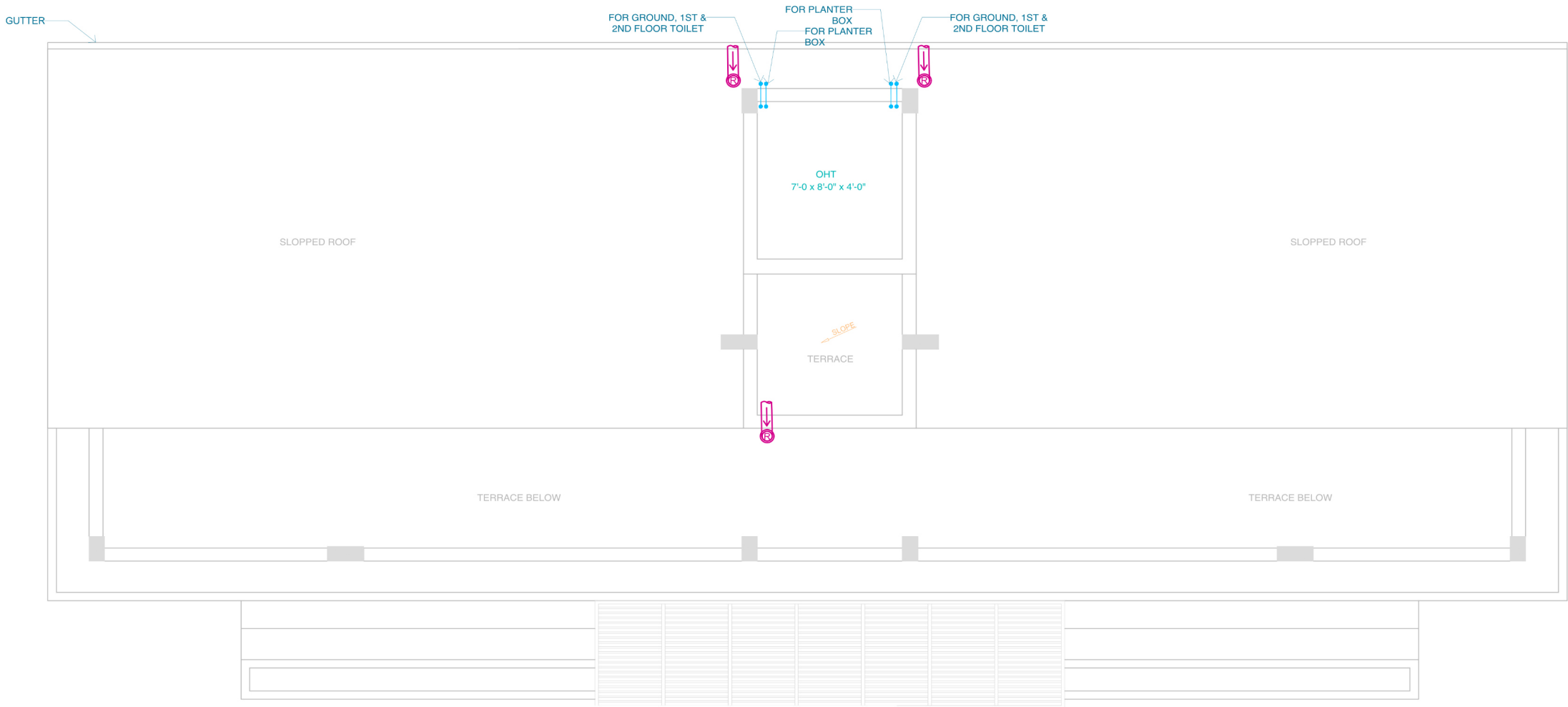
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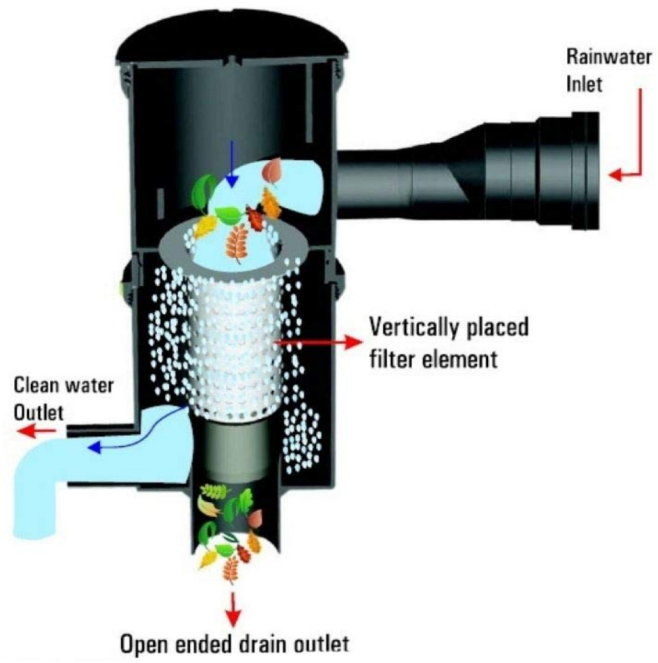


1 THIRD FLOOR PLAN
SCALE:4"=1'

LEGENDS	
IC	INSPECTION CHAMBER BLACK WATER
IC	INSPECTION CHAMBER GRAY WATER
IC	INSPECTION CHAMBER RAIN WATER
4"Ø	4"Ø SOIL PIPE
2.5"Ø	2.5"Ø GRAY WATER PIPE
1"Ø	1"Ø RECYCLED WATER LINE
CONDENSATE	CONDENSATE FROM AC LINE
1"Ø	1"Ø HOT WATER LINE
1"Ø	1"Ø COLD WATER
6"Ø	6"Ø PIPE FOR RAINWATER
WMC	HOT/COLD WATER MIXER
WMC	WASH BASIN
WMC	FAUCET
WMC	DIRECTION OF SLOPE
WMC	RAIN WATER DOWN SPOT
WMC	RAIN WATER LINE
WMC	WATER PUMP
WMC	WALL DRAIN
WMC	FLOOR TRAP
WMC	DI DRIP IRRIGATION
WMC	RO WATER PURIFIER
WMC	WASHING MACHINE
WMC	DISH WASHER



1 OHT PLAN
SCALE:4"=1'



2 RAINY FILTER
SCALE:NTS

RAINY FILTER TO BE INSTALLED AT EACH DOWNSPOUT

LEGENDS	
IC	INSPECTION CHAMBER BLACK WATER
IC	INSPECTION CHAMBER GRAY WATER
IC	INSPECTION CHAMBER RAIN WATER
4"	4"Ø SOIL PIPE
2.5"	2.5"Ø GRAY WATER PIPE
1"	1"Ø RECYCLED WATER LINE
COND	CONDENSATE FROM AC LINE
1"	1"Ø HOT WATER LINE
1"	1"Ø COLD WATER
6"	6"Ø PIPE FOR RAINWATER
HC	HOT/COLD WATER MIXER
EW	EW
WB	WASH BASIN
F	FAUCET
S	DIRECTION OF SLOPE
RD	RAIN WATER DOWN SPOT
R	RAIN WATER LINE
WP	WATER PUMP
FD	FLOOR TRAP
DI	DRIP IRRIGATION
RO	RO WATER PURIFIER
WC	WASHING MACHINE
DW	DISH WASHER

TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

DRAWING TYPE:
PLUMBING PLAN

NOTES / AREA STATMENT:

VERSION / REVISION:

DATE:
17-08-2022

FILE NAME:
PJ157_KFI SQ_20220816.DWG

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ARCHITECT:

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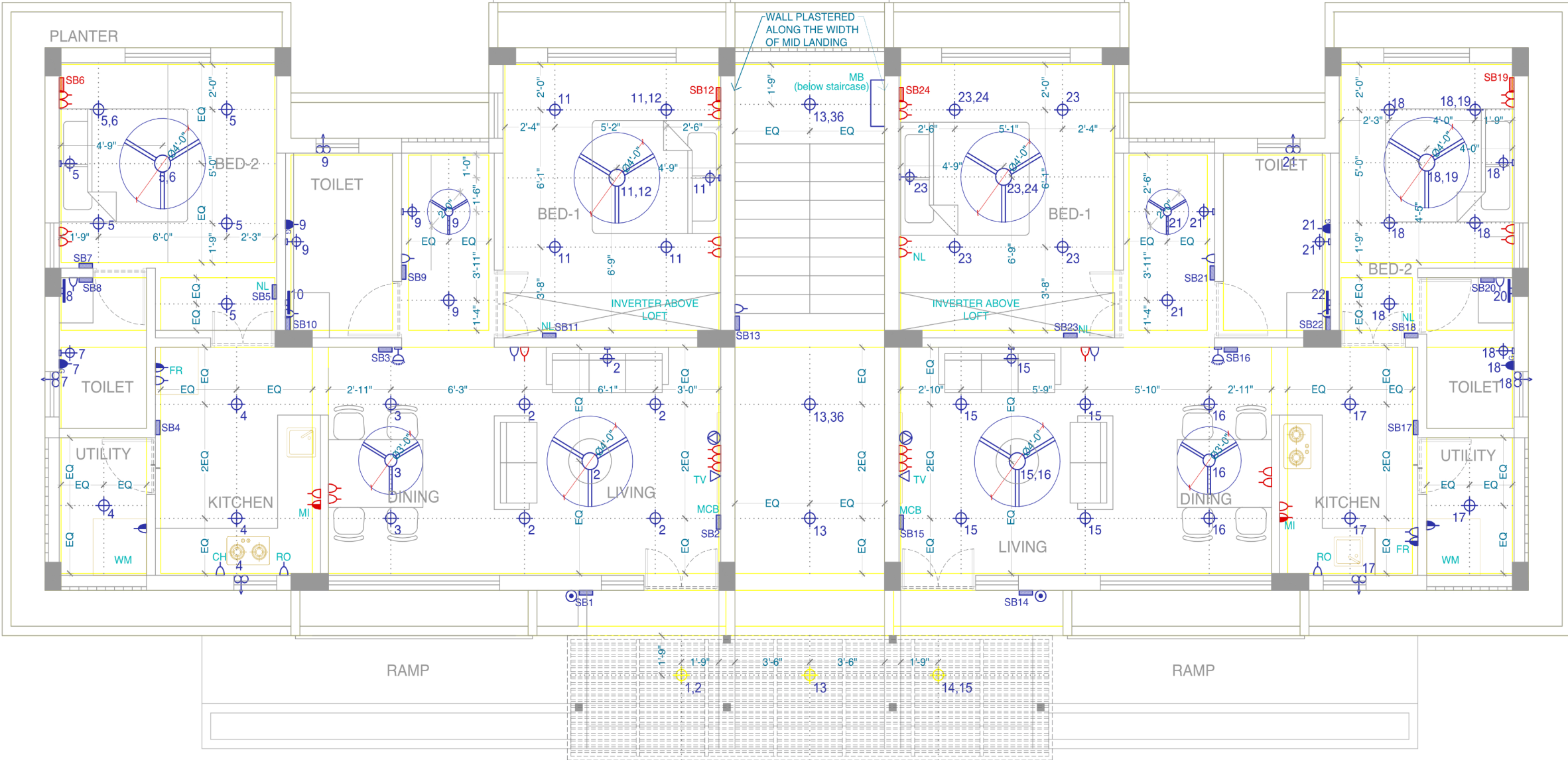
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P-4

SHEET SIZE:
A3

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1 GROUND FLOOR PLAN
SCALE:5"=1'

TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

DRAWING TYPE:
ELECTRICAL PLAN

NOTES / AREA STATMENT:

VERSION / REVISION:

DATE:
17-08-2022



FILE NAME:

PJ157_KFI SQ_20220816.DWG

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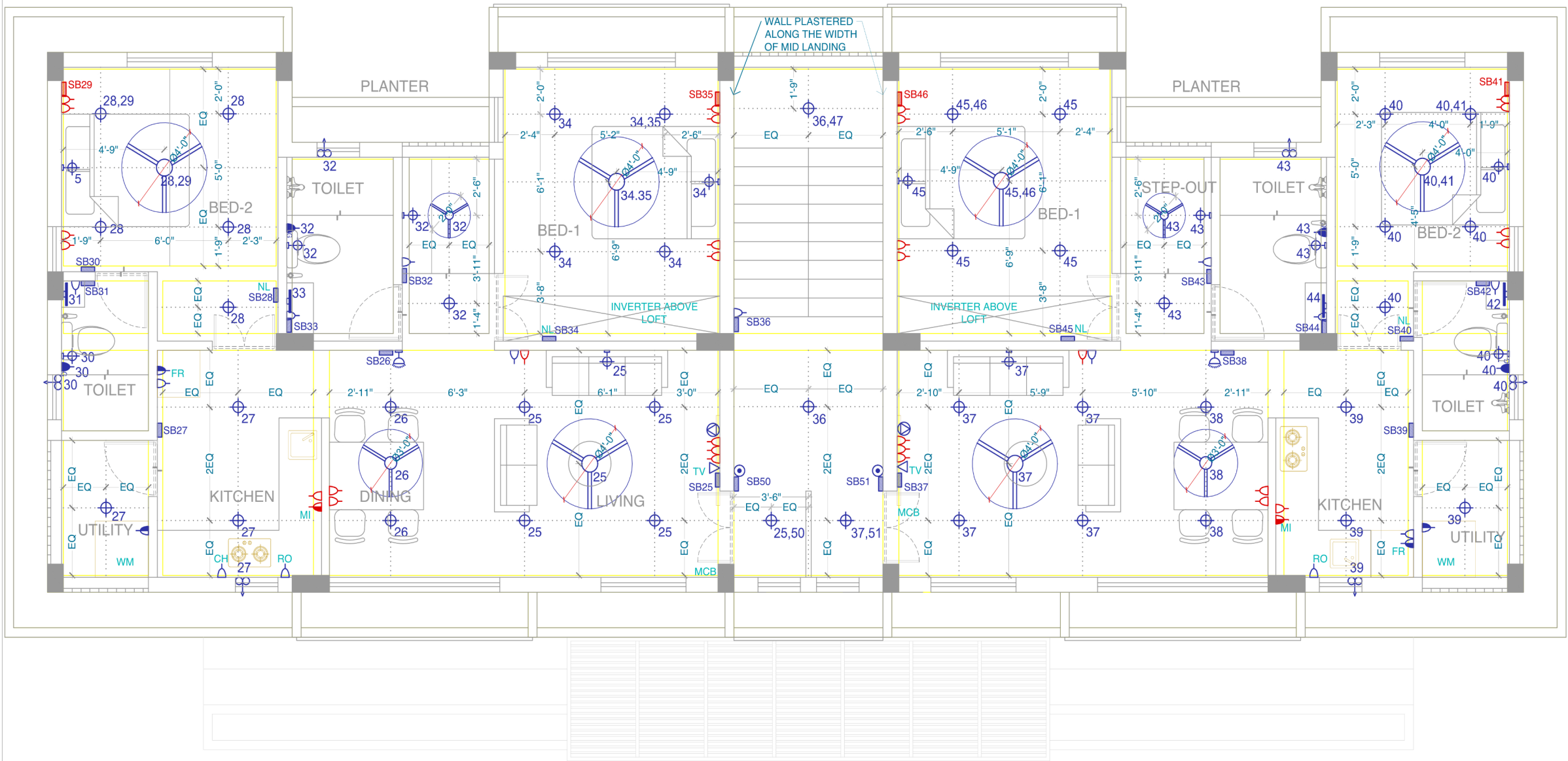
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E-1
SHEET SIZE:
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LEGENDS			
	SWITCH BOARD (1'-6" FROM FFL)		20A SOCKET & SWITCH @ 3' FROM FFL
	SWITCH BOARD (4'-6" FROM FFL)		EXHAUST FAN @ VENTILATOR LVL
	6A SOCKET OUTLET		MCB TYPE DISTRIBUTION BOARD (5'-0" FROM FFL)
	6A SOCKET OUTLET (1'-10" FROM FFL)		CEILING LIGHT (DC POWER)
	WALL LIGHT (2'-6" FROM FFL)		PERGOLA HANGING LIGHT (DC POWER)
	WALL LIGHT (7'-6" FROM FFL)		SURVEILLANCE CAMERA
	WALL LIGHT (5'-6" FROM FFL)		GATE LIGHT
	CEILING FAN		DATA POINT
	CHANDLIER		MCB MINIATURE CIRCUIT BOARD
	TV OUTLET (2'-6" FROM FFL)		RF REFRIGERATOR
	MIRROR LIGHT WITH SWITCH (6'-6" FROM FFL)		RO/ 3M WATER PURIFIER
	BELL PUSH SWITCH (4'-6" FROM FFL)		MI MIXER
	BUZZER(7'-6" FROM FFL)		WM WASHING MACHINE
	16A SOCKET		CH CHIMNEY
	16A SOCKET OUTLET (2'-3" FROM FFL)		NL NIGHT LAMP
	GEYSER SOCKET 7'-6" FROM FFL		MB METER BOX
	20 A SOCKET @ 9'-6" FROM FFL & SWITCH @ 4'-6" FROM FFL		



1 TYPICAL FIRST & SECOND FLOOR PLAN
SCALE: 5"=1'

LEGENDS			
	SWITCH BOARD (1'-6" FROM FFL)		20A SOCKET & SWITCH @ 3' FROM FFL
	SWITCH BOARD (4'-6" FROM FFL)		EXHAUST FAN @ VENTILATOR LVL
	6A SOCKET OUTLET		MCB TYPE DISTRIBUTION BOARD (5'-0" FROM FFL)
	6A SOCKET OUTLET (1'-10" FROM FFL)		CEILING LIGHT (DC POWER)
	WALL LIGHT (2'-6" FROM FFL)		PERGOLA HANGING LIGHT (DC POWER)
	WALL LIGHT (7'-6" FROM FFL)		SURVEILLANCE CAMERA
	WALL LIGHT (5'-6" FROM FFL)		GATE LIGHT
	CEILING FAN		DATA POINT
	CHANDLIER		MINIATURE CIRCUIT BOARD
	TV OUTLET (2'-6" FROM FFL)		REFRIGERATOR
	MIRROR LIGHT WITH SWITCH (6'-6" FROM FFL)		RO/ 3M WATER PURIFIER
	BELL PUSH SWITCH (4'-6" FROM FFL)		MIXER
	BUZZER(7'-6" FROM FFL)		WASHING MACHINE
	16A SOCKET		CHIMNEY
	16A SOCKET OUTLET (2'-3" FROM FFL)		NIGHT LAMP
	GEYSER SOCKET 7'-6" FROM FFL		METER BOX
	20 A SOCKET @ 9'-6" FROM FFL & SWITCH @ 4'-6" FROM FFL		

TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

DRAWING TYPE:
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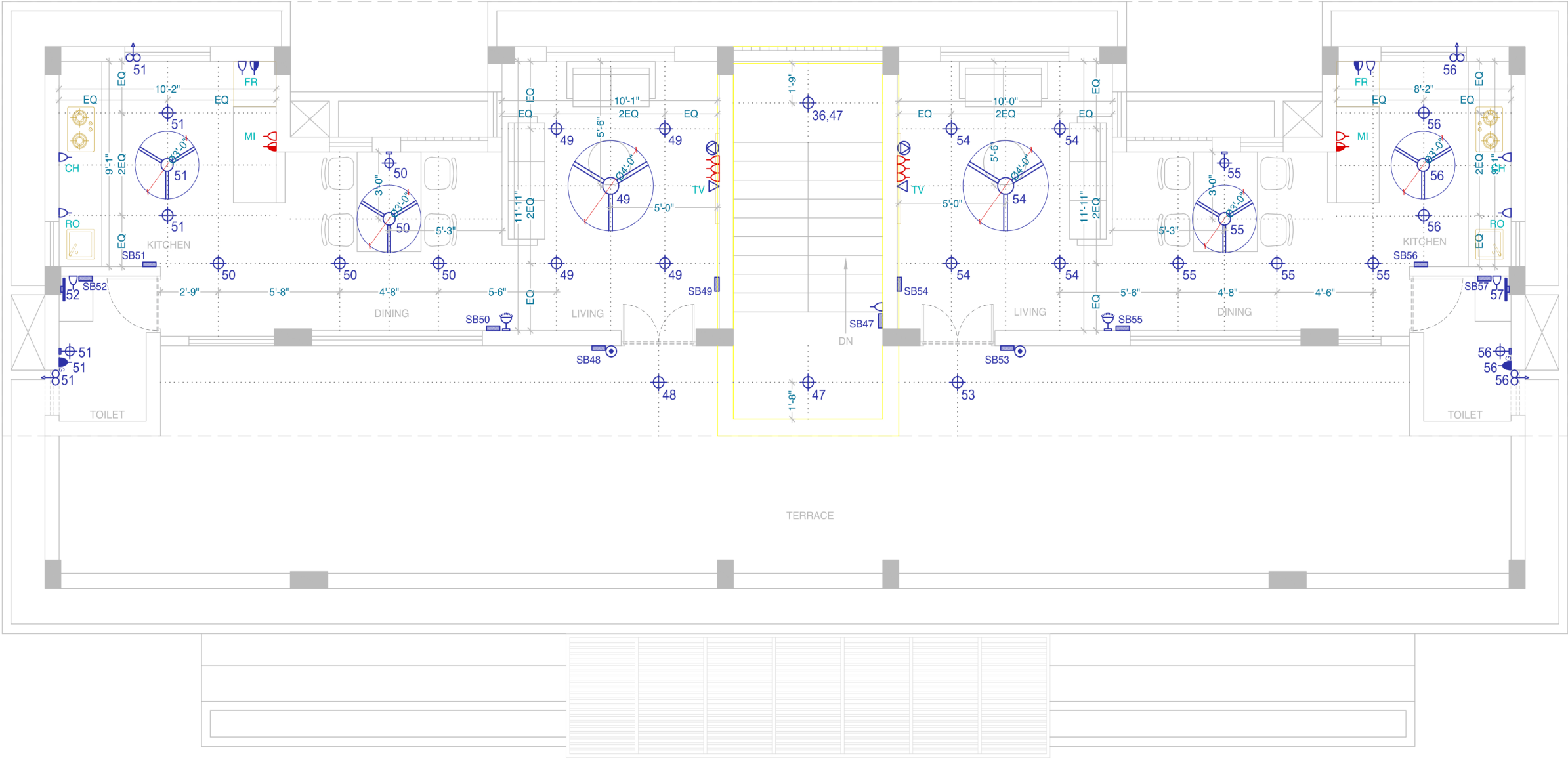
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1 TERRACE FLOOR PLAN
SCALE: 5"=1'

LEGENDS			
	SWITCH BOARD (1'-6" FROM FFL)		20A SOCKET & SWITCH @ 3' FROM FFL
	SWITCH BOARD (4'-6" FROM FFL)		EXHAUST FAN @ VENTILATOR LVL
	6A SOCKET OUTLET		MCB TYPE DISTRIBUTION BOARD (5'-0" FROM FFL)
	6A SOCKET OUTLET (1'-10" FROM FFL)		CEILING LIGHT (DC POWER)
	WALL LIGHT (2'-6" FROM FFL)		PERGOLA HANGING LIGHT (DC POWER)
	WALL LIGHT (7'-6" FROM FFL)		SURVEILLANCE CAMERA
	WALL LIGHT (5'-6" FROM FFL)		GATE LIGHT
	CEILING FAN		DATA POINT
	CHANDLER		MCB MINIATURE CIRCUIT BOARD
	TV OUTLET (2'-6" FROM FFL)		REFRIGERATOR
	MIRROR LIGHT WITH SWITCH (6'-6" FROM FFL)		RO/ 3M WATER PURIFIER
	BELL PUSH SWITCH (4'-6" FROM FFL)		MIXER
	BUZZER(7'-6" FROM FFL)		WASHING MACHINE
	16A SOCKET		CHIMNEY
	16A SOCKET OUTLET (2'-3" FROM FFL)		NIGHT LAMP
	GEYSER SOCKET 7'-6" FROM FFL		METER BOX
	20 A SOCKET @ 9'-6" FROM FFL & SWITCH @ 4'-6" FROM FFL		

TITLE:
ARCHITECTURAL DRAWINGS

PROJECT:
PJ157_KFI STAFF QUARTERS

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•Energy efficient building envelope- 8” Porotherm blocks for exterior walls



•Salvaged doors repaired and used for all maindoors of the units



•Exposed interior and exterior surfaces to achieve cost efficiency

•Automated drip irrigation system installed to achieve water efficiency

•On site existing plantations preserved



•Water drainage line for planter



•Interesting jalli pattern for natural ventilation and light while insuring privacy

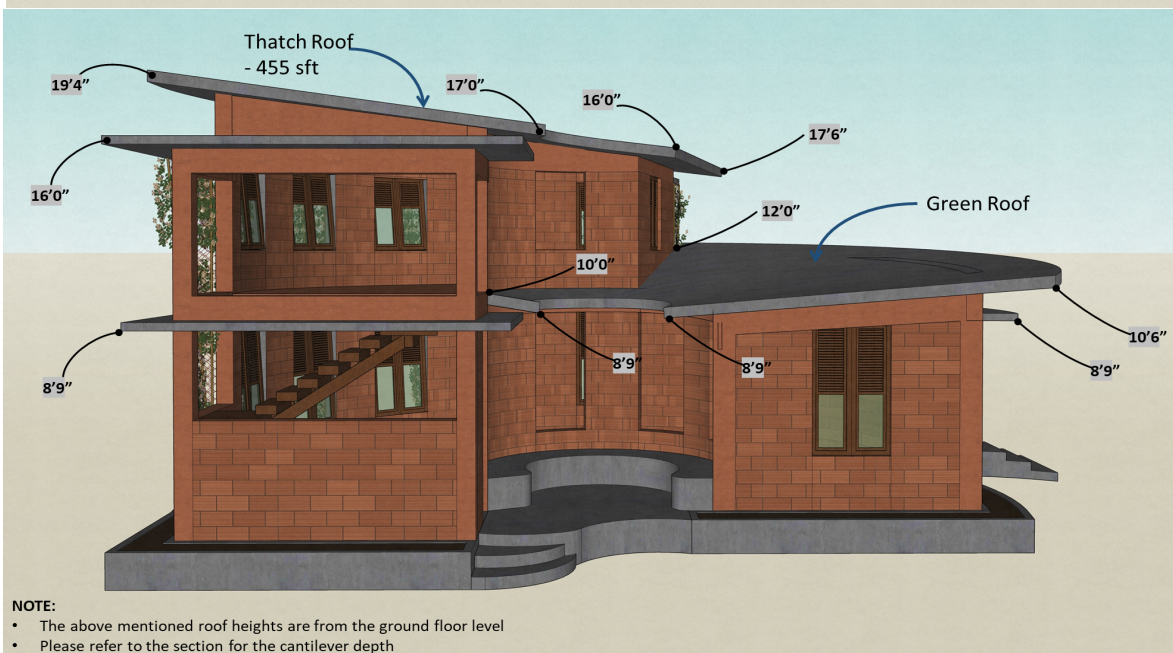
Three overlapping circles in a light gray color are positioned in the upper half of the image. The circles are of different sizes and are arranged in a way that they overlap each other, creating a sense of depth and movement. The largest circle is on the left, the medium one is in the center, and the smallest one is on the right.

GE OFFICE

DESIGN DETAILS

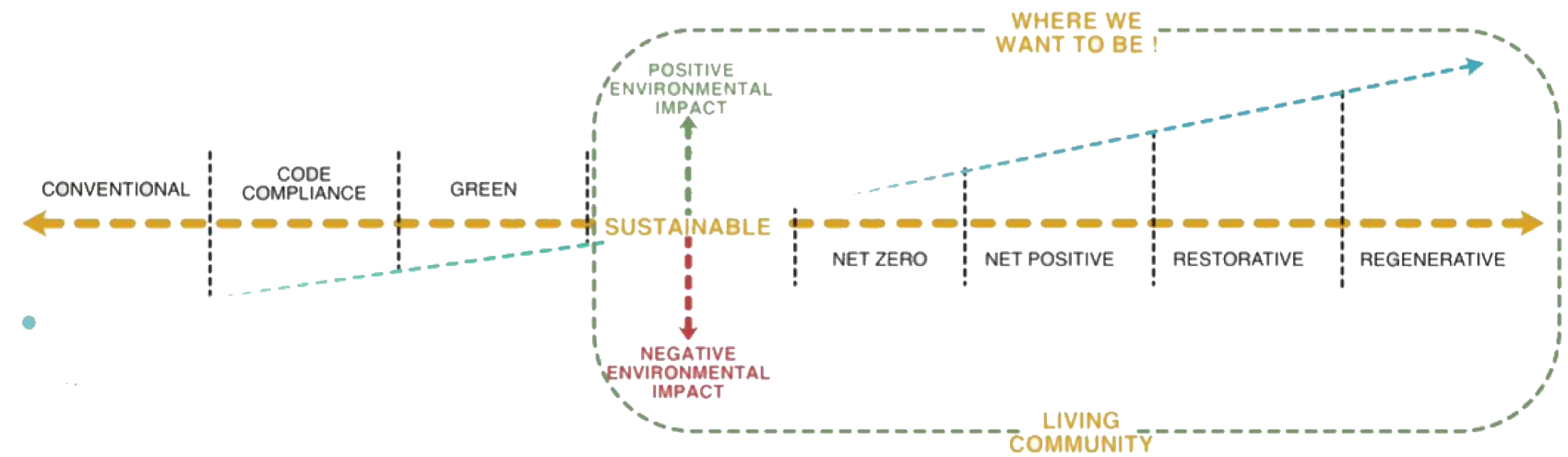
GREEN EVOLUTION OFFICE SPACE

Total Built Up Area- 82sqm (883 sft)
Ground Floor- 50.3sqm (542 sft)
Mazzanine- 31.6 sqm(342sft)



NOTE:
• The above mentioned roof heights are from the ground floor level
• Please refer to the section for the cantilever depth

A LIVING CAMPUS GOING BEYOND



THE KEY PERFORMANCE AREAS OF LIVING COMMUNITY

HEALTH + HAPPINESS:

Fostering environments that optimize physical and psychological health and well being

MATERIAL:

Building with products that are safe for all species through time

EQUITY:

Supporting a just equitable world

BEAUTY + INSPIRATION:

Celebrating design that uplifts the human spirit

ENERGY:

Relying on renewable resources

WATER:

Creating developments that operate within the water balance of a given place and climate

PLACE:

Restoring a healthy relationship between nature, place and community

•Interesting shading device design that not only cuts down the heat and glare but also helps to improve the air quality- air purifying plants at vertical landscape

•Energy efficient building envelope- 8" Porotherm blocks for exterior walls

•Windows designed to provide adequate daylight and natural ventilation to interior spaces