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   b. Feature Wall
   c. Benches
   d. Mumty
   e. Lighting Element
   f. Wall Art Installations
   g. Entrance
   h. Play Area
   i. Planting

Objectives:

•*To reduce the sense of the well in the courtyard and create* ***maximum tree canopy*** *as possible*

•*To provide* ***large usable greens***

•*To provide* ***vignette of planting*** *create identity by having specimen trees in each court*

•*To provide* ***maximum play area*** *based on previous studies*

•*To provide easy* ***pedestrian connections***

•*To address all liaison issues*



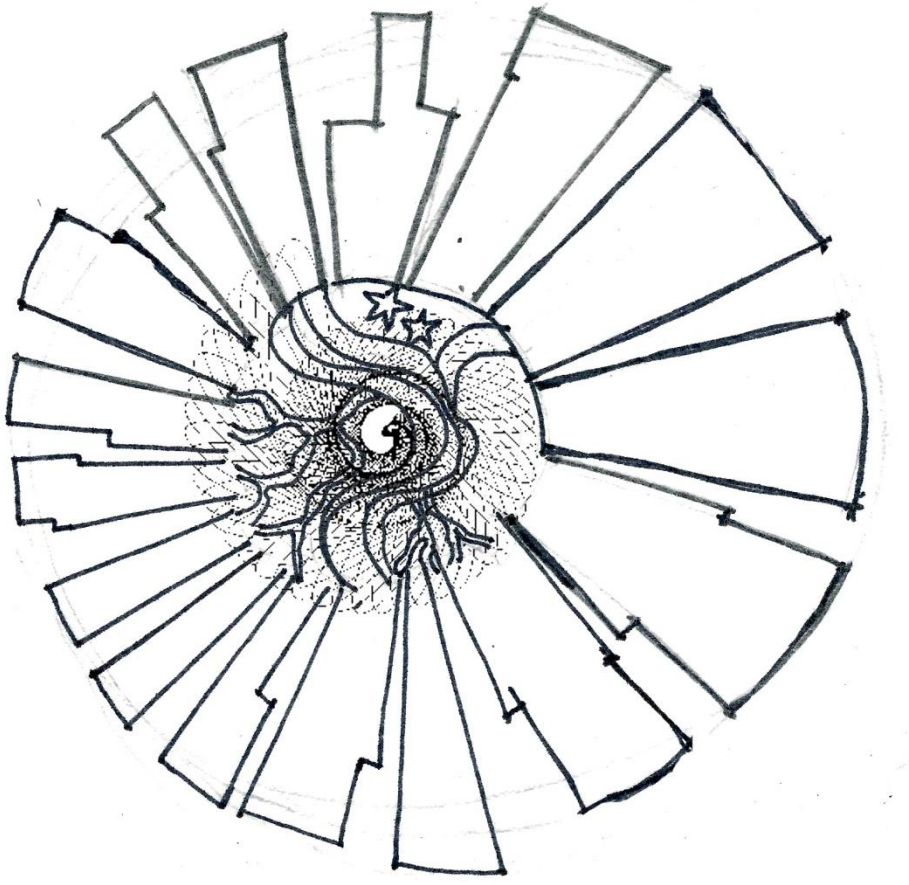
*Looking at the **Relentless Urbanity** and similar Architecture*
In the courtyards, the aim is to create another world within this world.

Sense of Identity

Memory

Emotional Lightness

Sense of Life



COURTYARD 3.07 _CASA ELITE

Total number of units in Cluster 3.07	: 916
Total population of Cluster 3.07(Assumed-4 persons per apartment)	: 3664
Total number of children playing at a time n Cluster 3.07	: 183.2 (5 % of the total population)
Total Landscape Area in Courtyard 3.07	**: 3395.2 sq.m.**
Total Play Area required in Courtyard 3.07	**: 458-503.8 sq.m.**
Open area per child considered	**: 2.5-2.75 sq.m.**



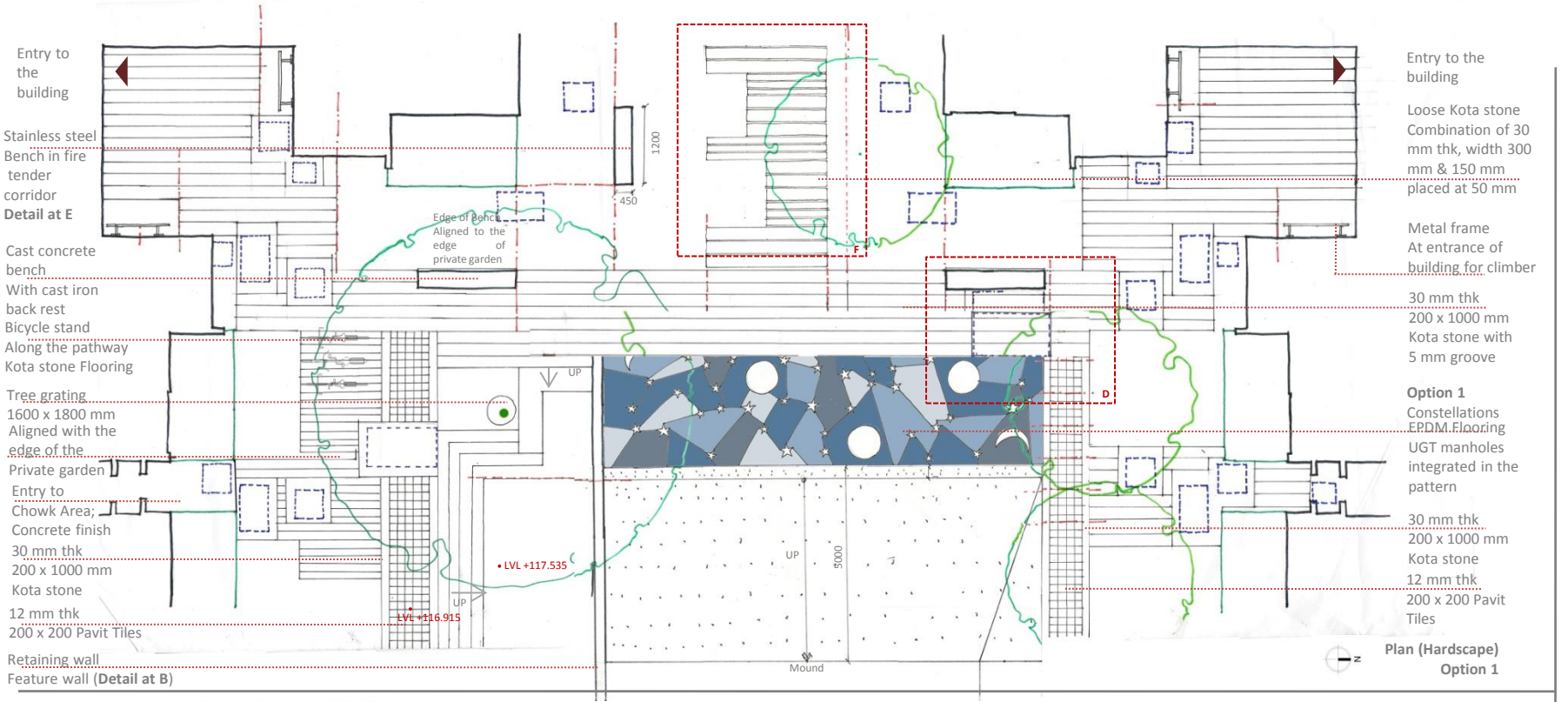
Key Plan Grid 100m x 100m

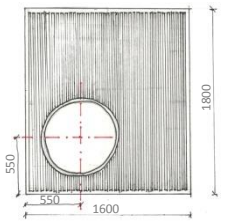


Legend

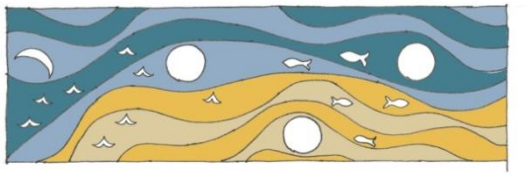
1. Main Entry
2. Entrances from Building
3. Entrance plaza
4. Private gardens
5. Congregation lawn
6. Mound
7. Trellis
8. Mumty with lighting element
9. Children play area (Sand pit)
10. Children play area (EPDM)
11. Walkway
12. Sit-out amongst trees
13. Bicycle stand
14. Community Garbage Collection Area
15. Cluster Garbage Bins
    (Wet Bins : 26 nos.
    Dry bins : 16 nos.)
16. C.S.S Unit
17. Retail Block

0 5 15 20m





Detail at A: Metal Tree grating



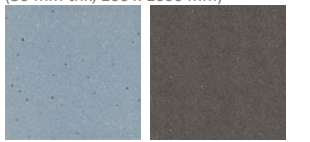
Option 2 : EPDM flooring pattern (The Horizon)

Cluster 3.07 A_Hardscape

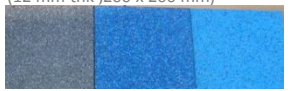
Reference Images



Kota Stone
(30 mm thk, 200 x 1000 mm)



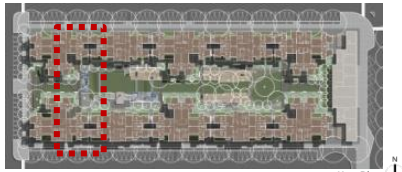
Pavit Tiles
(12 mm thk ,200 x 200 mm)



EPDM Flooring

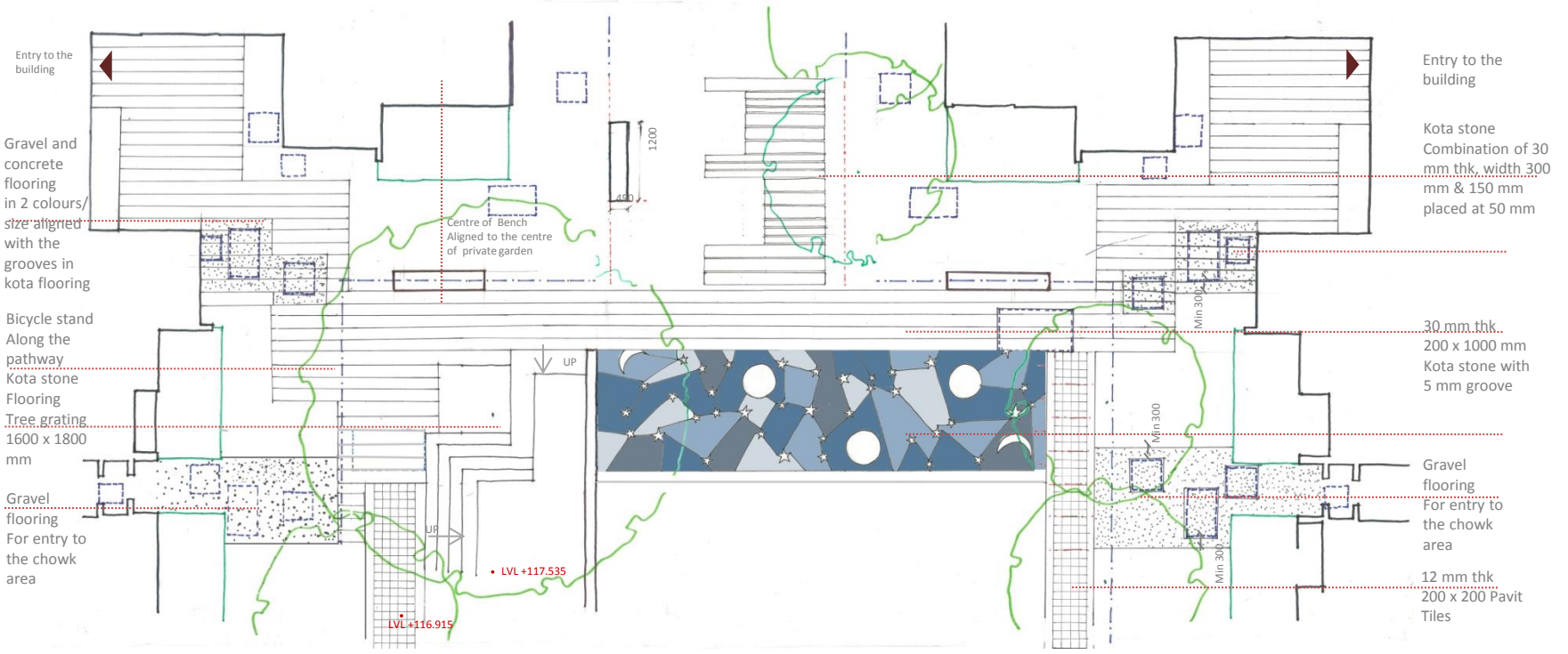


Tree grating



Key Plan

Cluster 3.07 A_Hardscape

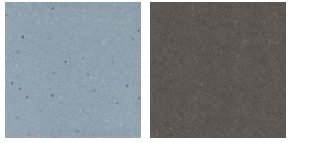


Plan (Hardscape) Option 2

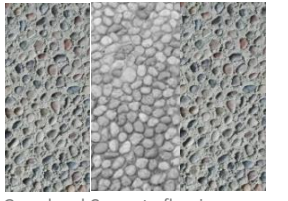
Reference Images



Kota Stone
(30 mm thk, 200 x 1000 mm)



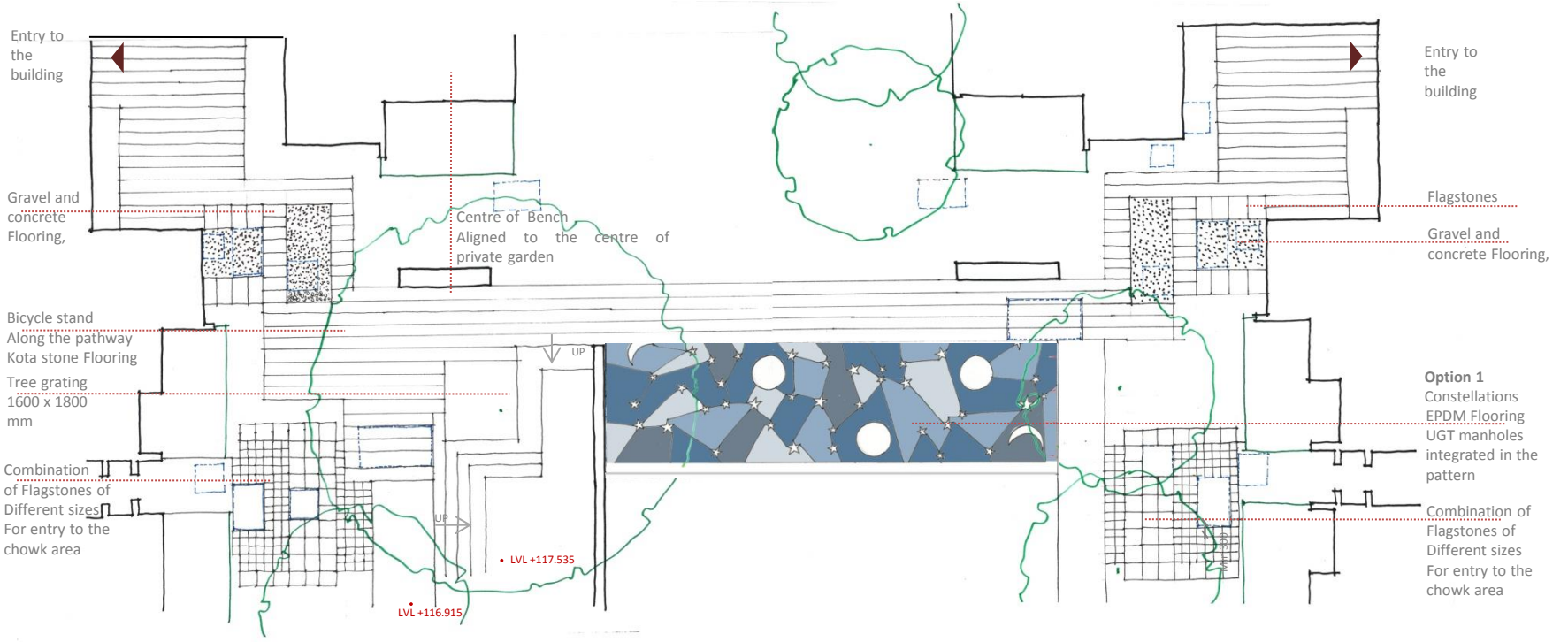
Pavit Tiles
(12 mm thk ,200 x 200 mm)



Gravel and Concrete flooring



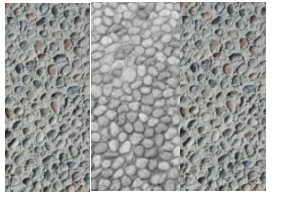
Key Plan



Plan (Hardscape)
Option 3

Cluster 3.07 A_Hardscape

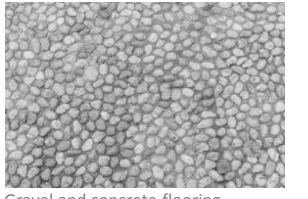
Reference Images



Gravel and Concrete flooring
aligned with the grooves in kota flooring
For situation 1 (Option AA)



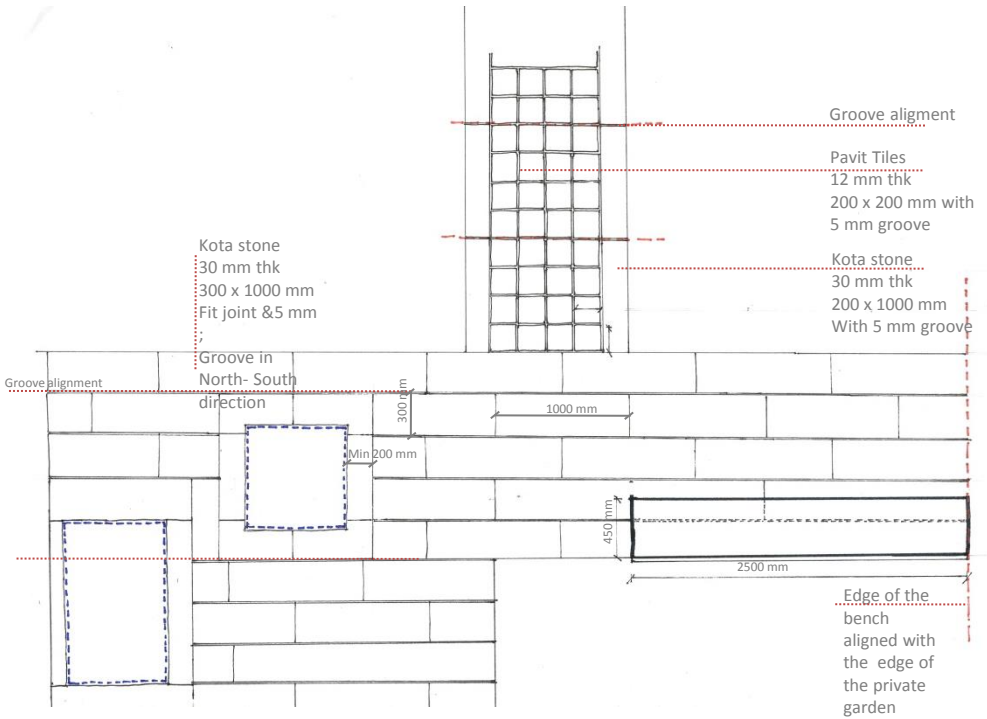
Flagstones
For situation 2 (Option AA)



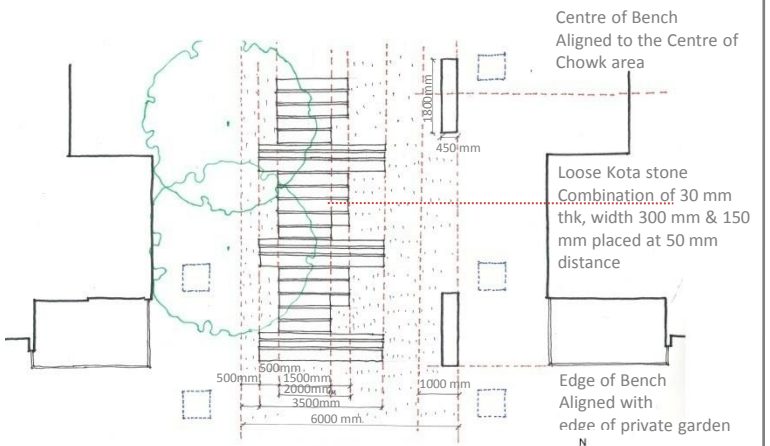
Gravel and concrete flooring
For situation 1 & 2 (Option BB)



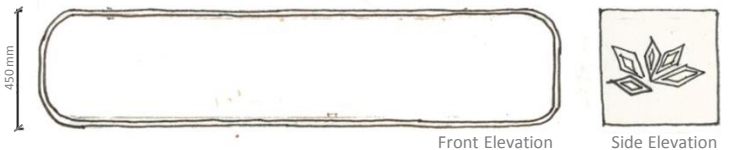
Key Plan



Plan (Pathway)
Detail at D



Plan (Option 2 : Loose stone pattern in fire tender corridor)
Detail at F



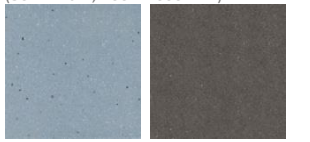


Plan (Stainless steel bench in fire tender corridor)
Detail at E

Reference Images



Kota Stone
(30 mm thk, 200 x 1000 mm)



Pavit Tiles
(12 mm thk ,200 x 200 mm)

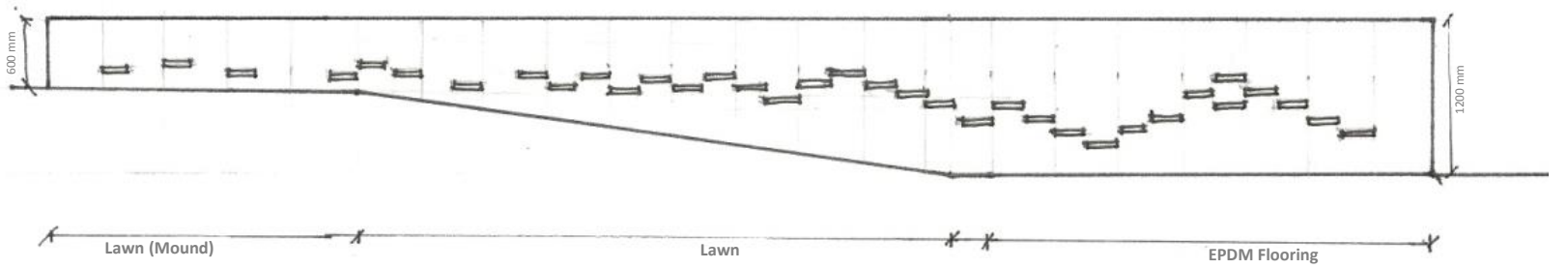


Loose Kota Stone in lawn
(Width 300 mm & 150 mm)

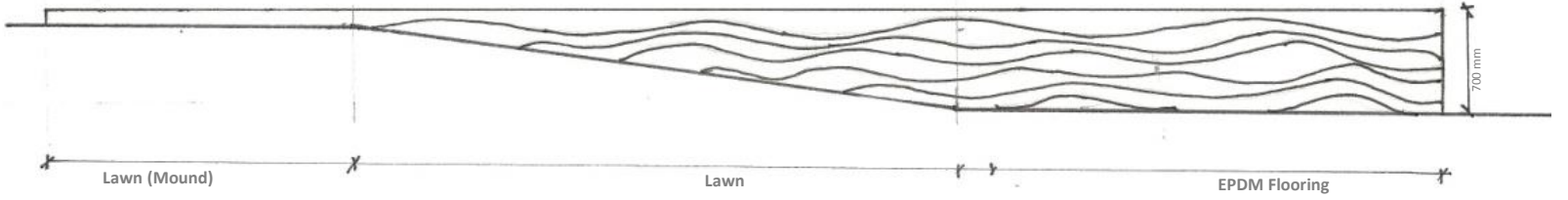


Key Plan

Cluster 3.07 A_Feature Wall



Elevation (Feature Wall)
Option 1
Detail at D



Elevation (Feature Wall)
Option 2
Detail at D

Reference Images



Coutouts in concrete for feature wall

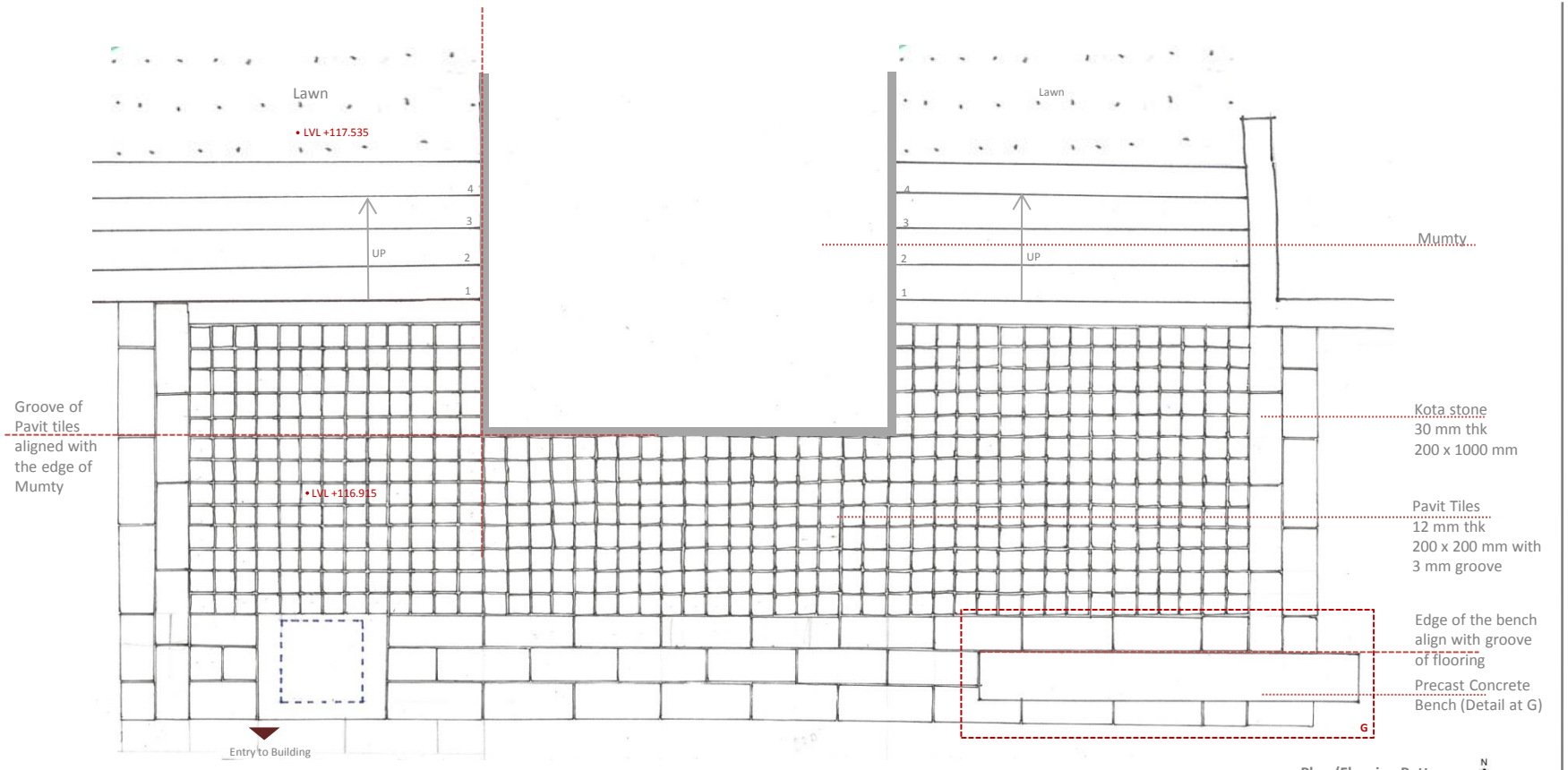




Concrete texture finish for feature wall



Key Plan

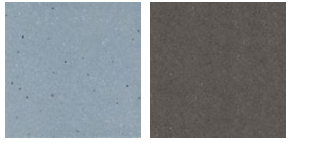


Plan (Flooring Pattern

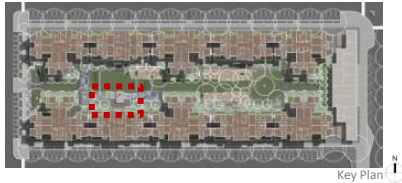
Reference Images



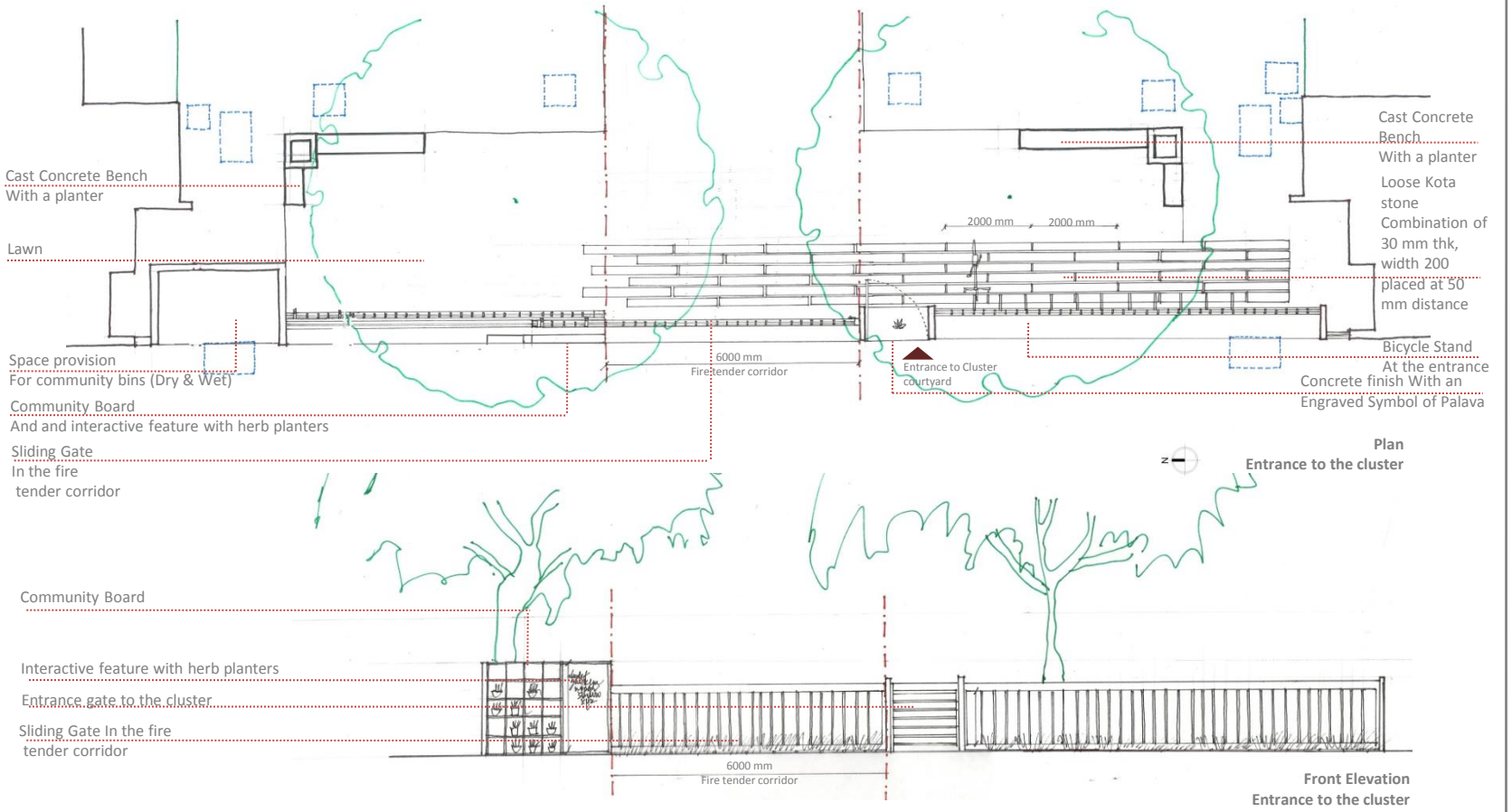
Kota Stone
(30 mm thk, 200 x 1000 mm)



Pavit Tiles
(12 mm thk ,200 x 200 mm)



Key Plan



Reference Images



Bicycle stand



Interactive element at the entrance of cluster for planting herbs

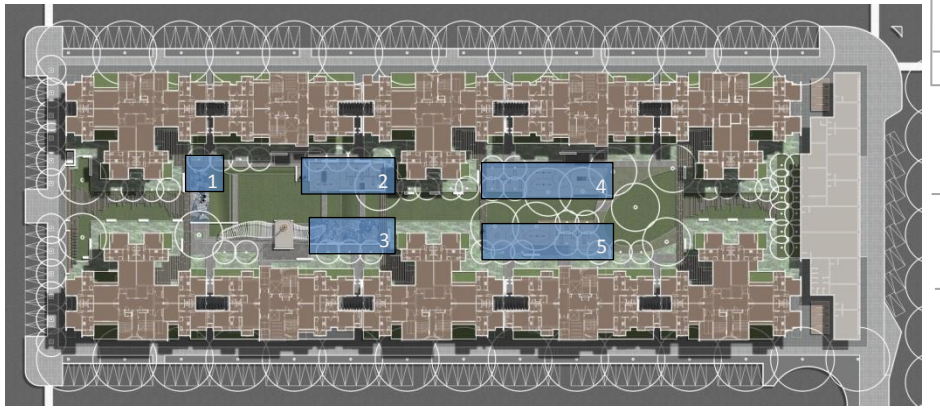


Community boards at the entrance of the cluster



Key Plan

Zone 1 : Turtle riders
Zone 2 : Climbing walls & climbing bars
Zone 3 : See saw
Zone 4 : Merry go rounds & slide
Zone 5 : Swings & Slide



Courtyard 3.07 Casa Elite 1

Total number of units in Cluster 3.07 : 916
Total population of Cluster 3.07(Assumed-4 persons per apartment) : 3664

Usage of play areas by 1 to 16 year olds in Courtyard 3.07
(Assumptions based on 'Survey of Casa Bella to study utilisation of play areas by 1 yr to 15 yr olds')

Age Group	Percentage	Number of individuals	Percentage of individuals using the play areas (at peak time of 6 to 7 pm)	Number of individuals using the play areas (at peak time of 6 to 7 pm)
1 yr to < 5 yrs	8.6 % of total population	315	29 %	91.3
5 yr to <10 yrs	8.4 % of total population	307	20 %	61.4
10 yr to < 16 yrs	3.9 % of total population	143	27 %	38.6

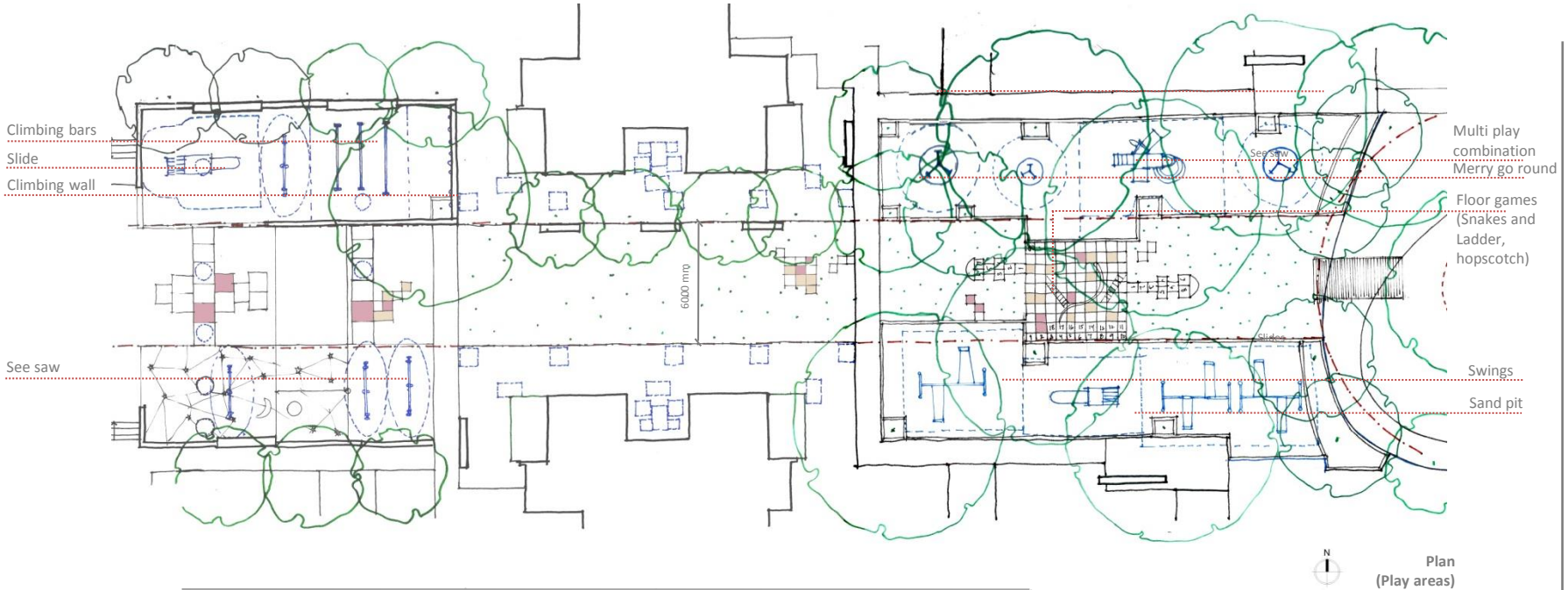
21 % of the population falls in the age group of **1 to 16 years** : 769.4
and of this, ~25% is using the kids play areas;
ie. ~**5% of the total population uses the kids play areas** **: 185**

Case Reference
1. In Casa Bella, Dombivali ; Area ratio for play equipment space : 0.43 sq.m. / playing kid
2. In Lodha Luxuria, Thane ; Area ratio for play equipment space : 0.46 sq.m / playing kid

Total Landscape Area in Courtyard 3.07 **: 3395.2 sq.m.**
Open area per child considered **: 2.5-2.75 sq.m.**
Total Play Area required in Courtyard 3.07 **: 458-503.8 sq.m.**

Reference: Survey of Casa Bella to study utilisation of play areas by 1 yr to 15 yr olds,July 2014

Cluster 3.07 A_Play Area



Plan
(Play areas)

	In Casa Bella,,Dombivali	In Lodha Luxuria,Thane	In Courtyard 3.07 Palava
Kids Play Spaces with play equipment Area ratio for play equipment space	1384 sq.m 0.43 sq.m/ playing child	200 sq.m 0.46 sq.m/ playing child	475.2 sq.m 2.59 sq.m/playing child
Kids Play equipment provided (Total)			
No. of Merry go round	2	2	3
No. of See Saws	2	0	4
No. of Swings	2	4	6
No. of Slides	4	0	2
No. of Climbing Walls + Spiderman Wall	3	0	1
No. of Multiplay Combination	1	2	1
No. of Turtle rider	1	0	2
No. of Hanging/ Monkey Bars	2	0	3
No. of Logroller	0	1	0

Reference: Survey of Casa Bella to study utilisation of play areas by 1 yr to 15 yr olds ,July 2014, Clearances provided as per Time Savers Standards

NOTE:

Usage pattern for play equipments

1 to 4 yr olds use Swings and Slides heavily; and a little bit of See Saws and Turtle riders

5 to 9 yr olds mainly use the bigger Slides (Twisters) and Climbing Walls; and a little bit of See Saws, Swings and Turtle riders

10 to 15 yr olds use the bigger Slides (Twisters) and Climbing Walls; many of them use the walking tracks around the Cricket pitch and the Central Green

Reference Images

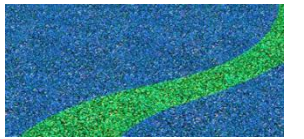


Sand

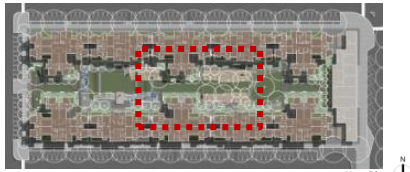


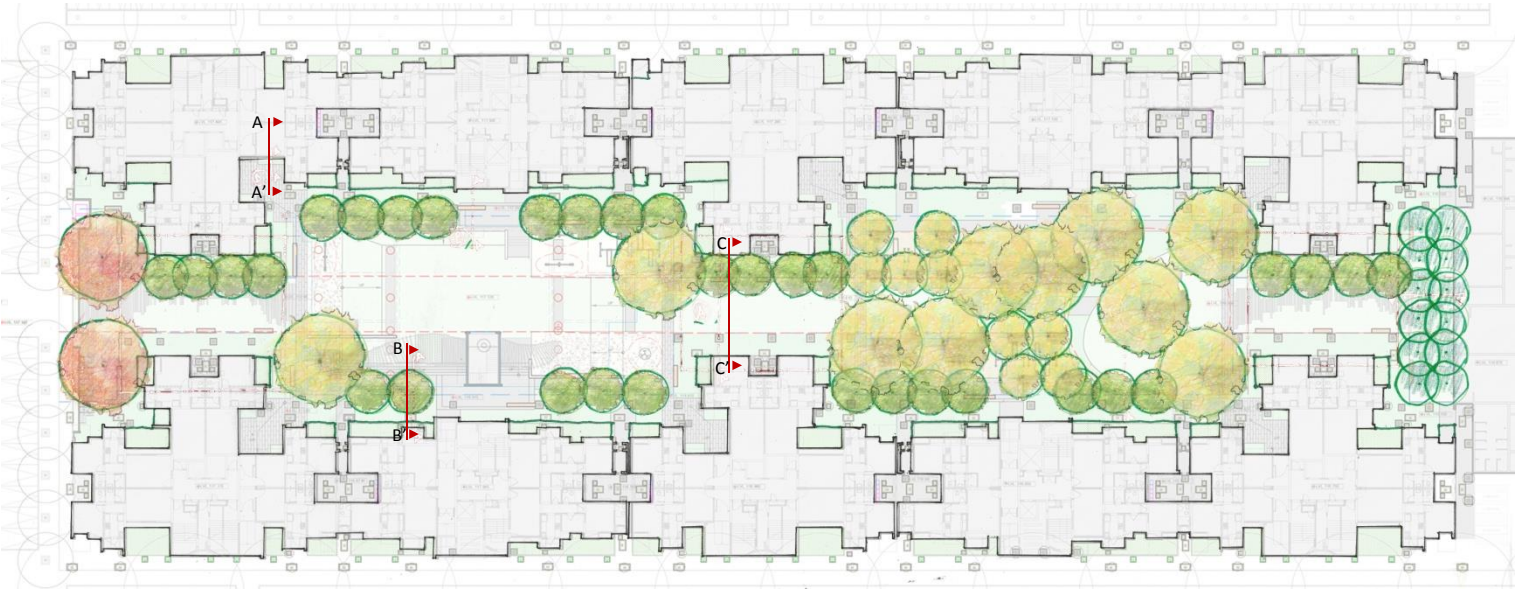
Pea Gravel





EPDM Flooring

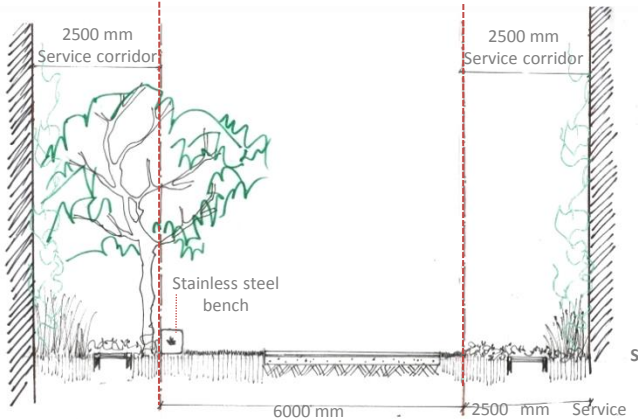




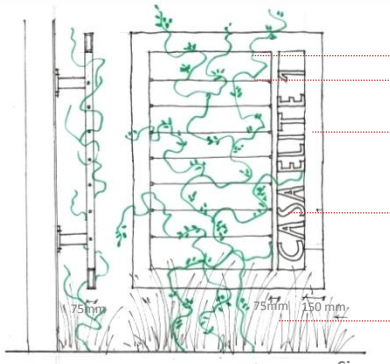
Planting Intent Plan
(Trees)

LEGEND

- Specimen Trees at the entrance of courtyard
- Trees at the plazas and other spaces
- Trees along the service corridor
- Columnar Trees at the rare side of the retail block

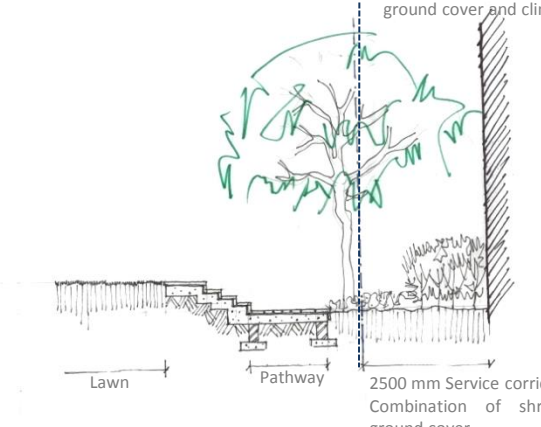


Section at B-B'

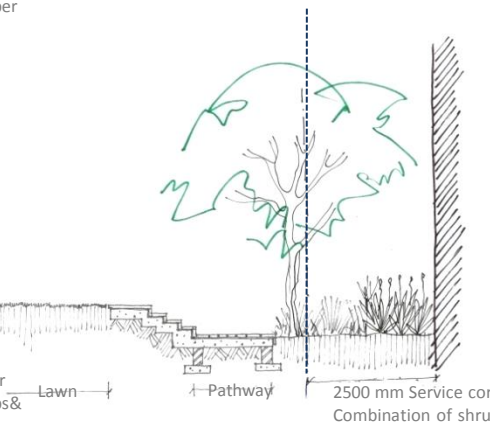


Flowering Climber
Thin MS wire
For climber
Frame made of
M.S. Box Section
150 x 75 mm
Name of the cluster
Grasses

Section at A-A'
Signage at entrance of building



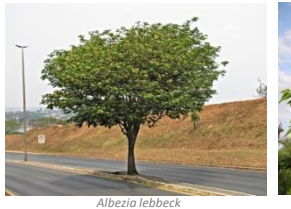
Option 1



Option 2

Section at B-B'

Planting

1. TREES	1.a. At Entrance to Courtyard	Colour Specimen	 Spathodia campanulata  Samanea saman  Peltophorum pterocarpum  Delonix regia  Tabebuia rosea
	1.b. Along Service Corridors	Directional Shade Foliage	 Saraca asoca  Lagerstroemia indica  Bauhinia blackeana  Callistemon  Lagerstroemia speciosa  Plumeria alba
	1.c. Plazas & Spaces (Play Areas & Congregation Areas)	Colour Fragrance Shade	 Terminalia Catappa  Terminalia arjuna  Cassia fistula  Albezia lebbeck  Cadamba
	1.d. Rare side of Retail Block	Columnar	 Eucalyptus  Sterculia foetida  Polyalthia longifolia  Bombax Ceiba

Planting

2. PLANTING IN SERVICE CORRIDOR	2.a. At Entrance to Building	Colour Specimen Fragrance	 Spathiphyllum  Jasminum  Heliconia Caribaea
	2.b. Along Pathways	Directional Colour Fragrance Foliage	 Alpinia Zerumbet  Raphis Palm  Hymenocallis  Cymabopogon  Alternanthera versicolor
			 Draceana sanderiana  Evolvulus  Ferns  Murraya koenigii
	2c. Around Community Garbage Bins	Foliage Thicket	 Bamboo  Asparagus  Pennisetum grass  Bamboo grass
	2.d. Fire Tender Corridor	Grasses Ground Cover	

Planting

3. CREEPERS / CLIMBERS	**3.a. At Entrance to Building**	**Colour** **Fragrance**	 *Thunbergia grandiflora*  *Quisqualis indica*  *Jasminum grandiflorum*
	3.b. Mumty Trellis	**Colour** **Frangrance**	 *Jacquemontia violacea*  *Antigonon leptopus*  *Allamanda angustifolia*
	3.c. Dead Walls in the fire tender corridor(6 m)	**Foliage**	
4. LAWN			 Cynodon dactylon  Paspalum



April 2015