



Country/ City	Chile / Santiago
University/ School	Central University of Chile / Architecture And Landscape School
Academic Year	2019
Title of the project	Restructuring and Enhancement of Tobalaba Park and San Carlos Canal, La Reina, Santiago, Chile.
Authors	Sebastián Ignacio Bahamondes Muñoz



TECHNICAL DOSSIER

Title of the project	Restructuring and Enhancement of Tobalaba Park and San Carlos Canal, Santiago, Chile.
Authors	Sebastián Ignacio Bahamondes Muñoz
Title of the course	Graduation Project
Academic year	2019
Teaching Staff	Francisca Fernández Cano
Department/Section/Program of belonging	Architecture and Landscape School
University/School	Central University of Chile



"RESTRUCTURING FROM THE SUTURE"

Written statement, short description of the project in English, no more than 250 words

The Project located at Parque Tobalaba, belonging to the commune of La Reina and to the Región Metropolitana of Santiago, is associated and related to the adjacent communes of Las Condes, Ñuñoa, Providencia, Peñalolén and La Florida, so it has an intercommunity character.

The proposal consists of: Restructuring the Parque Tobalaba between Francisco Bilbao - José Arrieta streets, and value the presence of the Canal San Carlos, through the URBAN SUTURE that configures a connected unit and, at the same time, enhances the green corridor condition associated with the birdlife.

The park and the canal will be configured through the following STRATEGIES:

TO ENHANCE: Green corridor associated with the birdlife, Character of each area of the park and its views, Native vegetation.

TO INTEGRATE: The sections of the park and surrounding streets through the development of footbridges, walkways, accesses, and spaces. Users of all condition, Canal San Carlos as a landscape resource to the park.

TO CONSERVE: Vegetation in good condition, Well-resolved sections of the bike path and trails.

TO VALUE: History and Patrimony of the place, Canal San Carlos as a hydric resource.

For further information

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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020

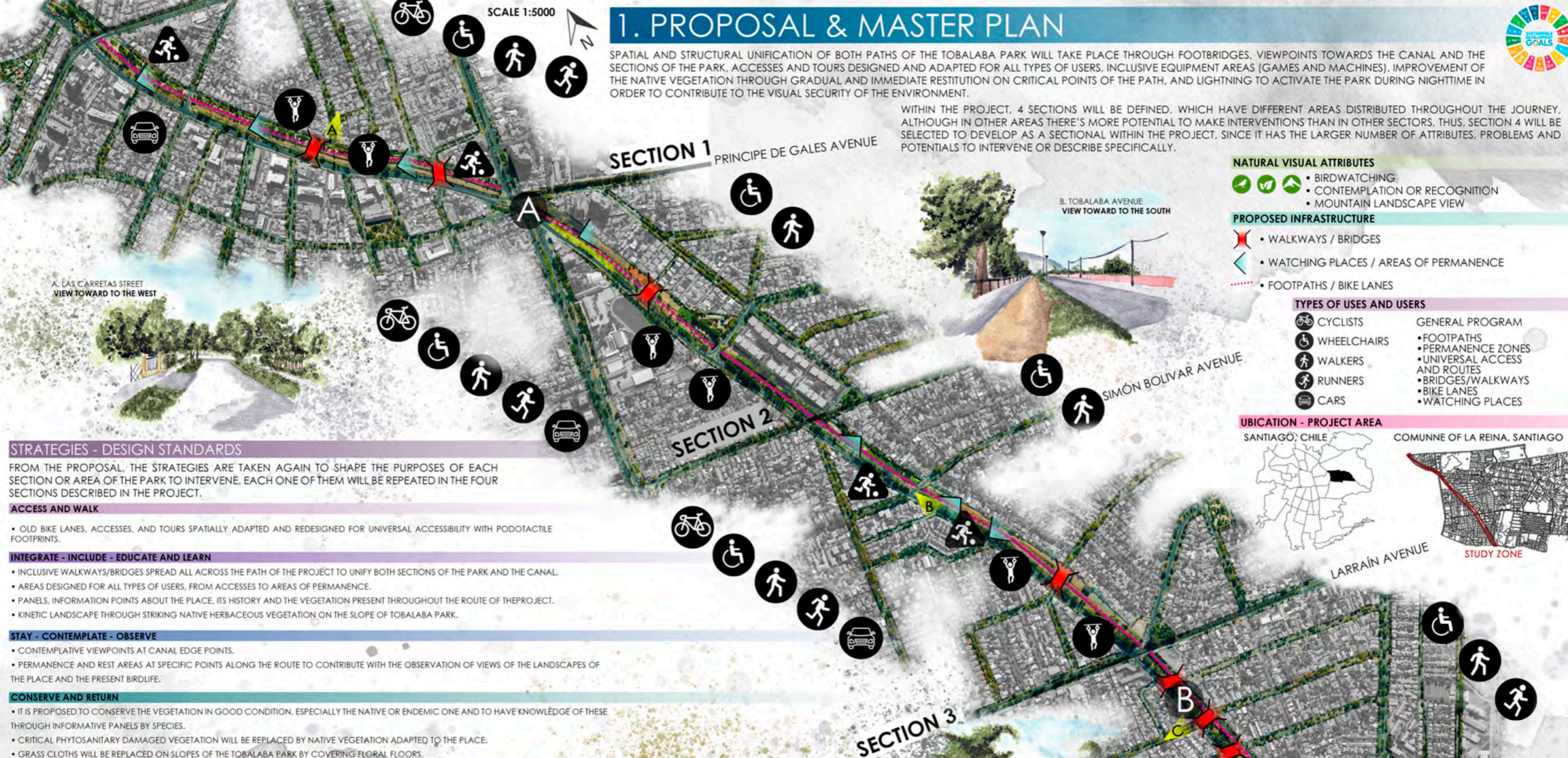
SCHOOL PRIZE



1. PROPOSAL & MASTER PLAN

SPATIAL AND STRUCTURAL UNIFICATION OF BOTH PATHS OF THE TOBALABA PARK WILL TAKE PLACE THROUGH FOOTBRIDGES, VIEWPOINTS TOWARDS THE CANAL AND THE SECTIONS OF THE PARK, ACCESSES AND TOURS DESIGNED AND ADAPTED FOR ALL TYPES OF USERS, INCLUSIVE EQUIPMENT AREAS (GAMES AND MACHINES), IMPROVEMENT OF THE NATIVE VEGETATION THROUGH GRADUAL AND IMMEDIATE RESTITUTION ON CRITICAL POINTS OF THE PATH, AND LIGHTNING TO ACTIVATE THE PARK DURING NIGHTTIME IN ORDER TO CONTRIBUTE TO THE VISUAL SECURITY OF THE ENVIRONMENT.

WITHIN THE PROJECT, 4 SECTIONS WILL BE DEFINED, WHICH HAVE DIFFERENT AREAS DISTRIBUTED THROUGHOUT THE JOURNEY, ALTHOUGH IN OTHER AREAS THERE'S MORE POTENTIAL TO MAKE INTERVENTIONS THAN IN OTHER SECTORS, THUS, SECTION 4 WILL BE SELECTED TO DEVELOP AS A SECTIONAL WITHIN THE PROJECT, SINCE IT HAS THE LARGER NUMBER OF ATTRIBUTES, PROBLEMS AND POTENTIALS TO INTERVENE OR DESCRIBE SPECIFICALLY.



- NATURAL VISUAL ATTRIBUTES**
- BIRDWATCHING
 - CONTEMPLATION OR RECOGNITION
 - MOUNTAIN LANDSCAPE VIEW
- PROPOSED INFRASTRUCTURE**
- WALKWAYS / BRIDGES
 - WATCHING PLACES / AREAS OF PERMANENCE
 - FOOTPATHS / BIKE LANES
- TYPES OF USES AND USERS**
- | | |
|---|--|
| <ul style="list-style-type: none"> CYCLISTS WHEELCHAIRS WALKERS RUNNERS CARS | <ul style="list-style-type: none"> GENERAL PROGRAM FOOTPATHS PERMANENCE ZONES UNIVERSAL ACCESS AND ROUTES BRIDGES/WALKWAYS BIKE LANES WATCHING PLACES |
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STRATEGIES - DESIGN STANDARDS

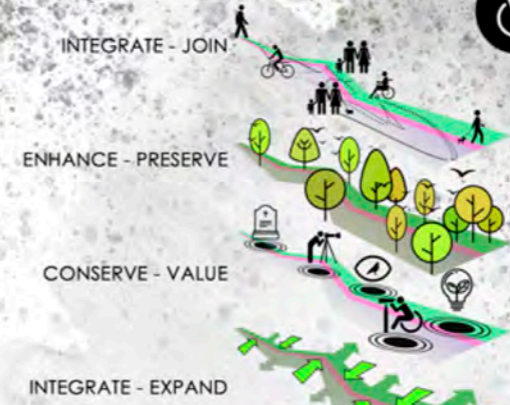
FROM THE PROPOSAL, THE STRATEGIES ARE TAKEN AGAIN TO SHAPE THE PURPOSES OF EACH SECTION OR AREA OF THE PARK TO INTERVENE, EACH ONE OF THEM WILL BE REPEATED IN THE FOUR SECTIONS DESCRIBED IN THE PROJECT.

- ACCESS AND WALK**
- OLD BIKE LANES, ACCESSES, AND TOURS SPATIALLY ADAPTED AND REDESIGNED FOR UNIVERSAL ACCESSIBILITY WITH PODOTACTILE FOOTPRINTS.
- INTEGRATE - INCLUDE - EDUCATE AND LEARN**
- INCLUSIVE WALKWAYS/BRIDGES SPREAD ALL ACROSS THE PATH OF THE PROJECT TO UNIFY BOTH SECTIONS OF THE PARK AND THE CANAL.
 - AREAS DESIGNED FOR ALL TYPES OF USERS, FROM ACCESSES TO AREAS OF PERMANENCE.
 - PANELS, INFORMATION POINTS ABOUT THE PLACE, ITS HISTORY AND THE VEGETATION PRESENT THROUGHOUT THE ROUTE OF THE PROJECT.
 - KINETIC LANDSCAPE THROUGH STRIKING NATIVE HERBACEOUS VEGETATION ON THE SLOPE OF TOBALABA PARK.
- STAY - CONTEMPLATE - OBSERVE**
- CONTEMPLATIVE VIEWPOINTS AT CANAL EDGE POINTS.
 - PERMANENCE AND REST AREAS AT SPECIFIC POINTS ALONG THE ROUTE TO CONTRIBUTE WITH THE OBSERVATION OF VIEWS OF THE LANDSCAPES OF THE PLACE AND THE PRESENT BIRDLIFE.
- CONSERVE AND RETURN**
- IT IS PROPOSED TO CONSERVE THE VEGETATION IN GOOD CONDITION, ESPECIALLY THE NATIVE OR ENDEMIC ONE AND TO HAVE KNOWLEDGE OF THESE THROUGH INFORMATIVE PANELS BY SPECIES.
 - CRITICAL PHYTOSANITARY DAMAGED VEGETATION WILL BE REPLACED BY NATIVE VEGETATION ADAPTED TO THE PLACE.
 - GRASS CLOTHS WILL BE REPLACED ON SLOPES OF THE TOBALABA PARK BY COVERING FLORAL FLOORS.

TARGET IMAGE - PHOTOMONTAGES



CONTEMPLATIVE VIEWPOINTS AND ROUTES - NEW GROVE ROAD EXTENSION - TREE PLANTATION - NEW LIGHTING



2. SECTIONAL TOBALABA'S PARK



SCALE 1:500

SECTION N°4



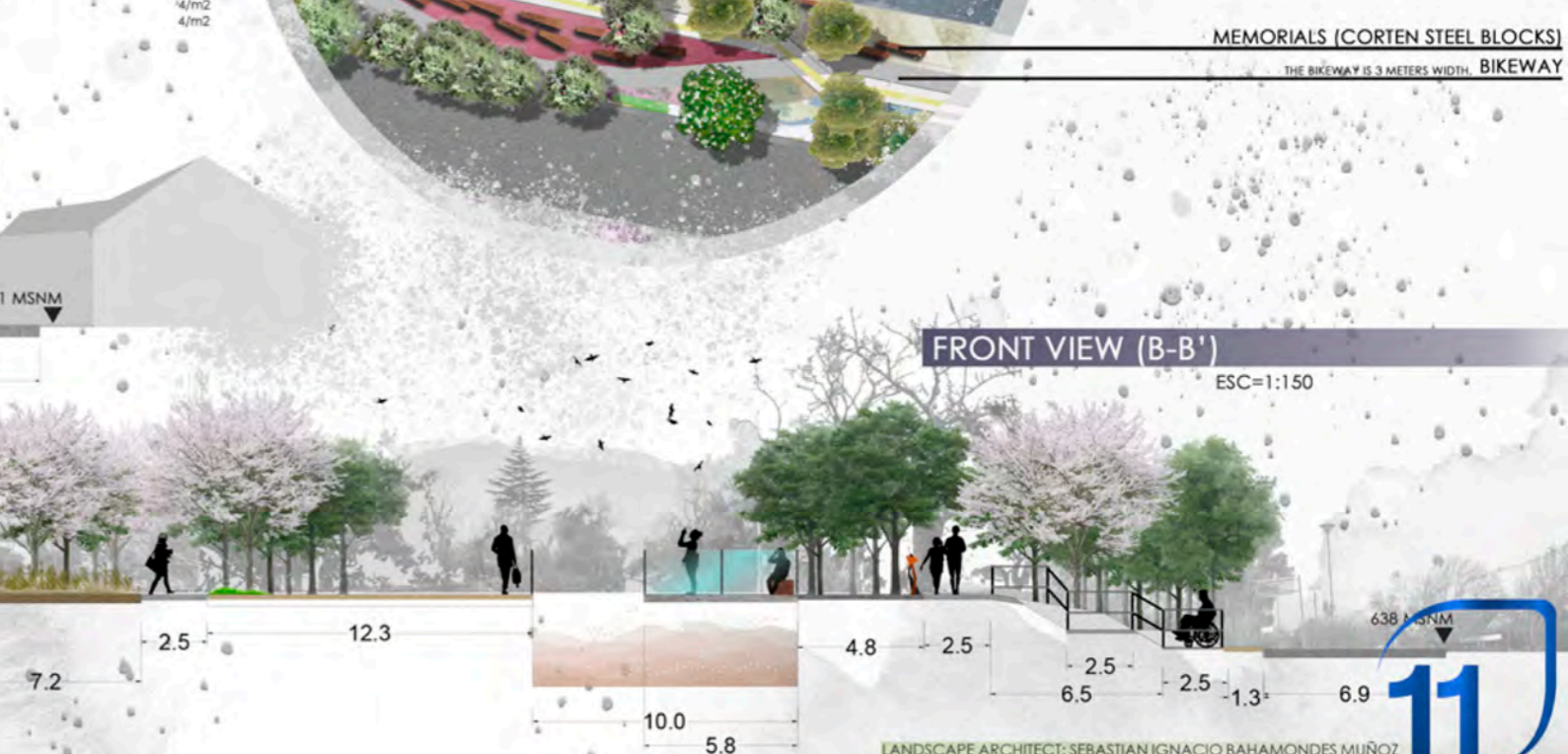
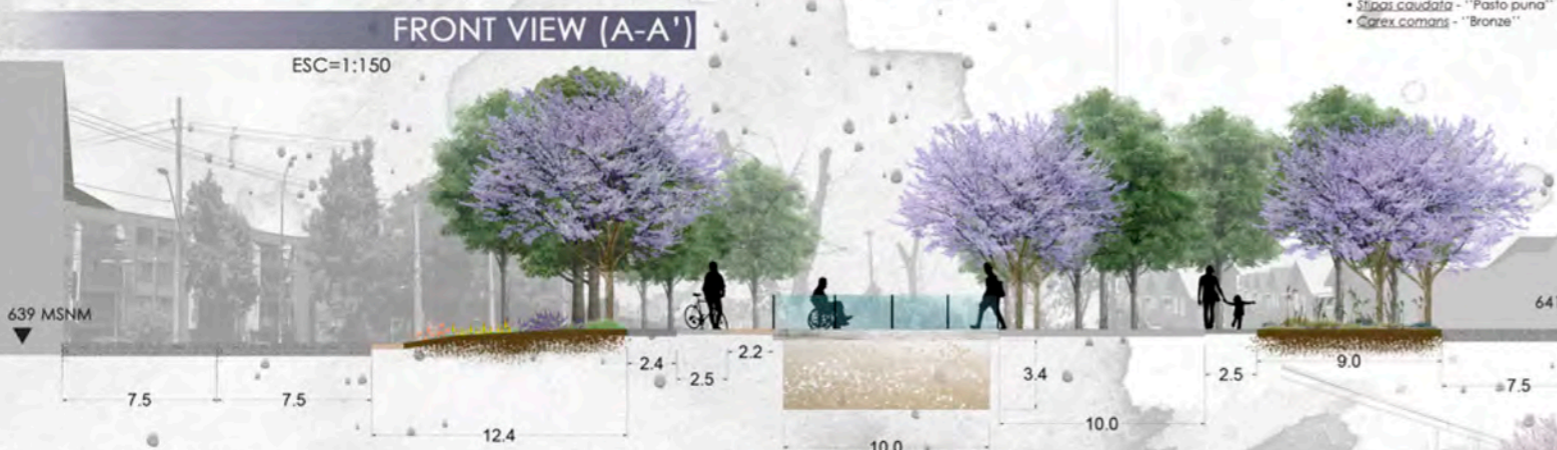
- *RECOGNIZED TREES IN FIELD STUDY AND WITH QGIS
- NATIVE TREES**
- Quillaja saponaria - "Quillay"
 - Schinus molle - "Pimiento"
- INTRODUCED TREES**
- Acer negundo
 - Robinia pseudoacacia
 - Melia azedarach
 - Ligustrum japonicum
 - Fraxinus excelsior
 - Ailanthus altissima
 - Prunus cerasifera nigra
 - Fraxinus ornus
 - esculus hippocastanum

VEGETABLE ASSOCIATIONS PROPOSED BY PATTERN

Pattern	Vegetable Association	Plant Species	Area
A PATTERN	HERBACEOUS	Glandubria berterii - "Verbena chilena lila"	10/m ²
		Liberia chilensis - "Cale-cale"	3/m ²
		Calceolaria thysiflora - "Topa-topa"	10/m ²
B PATTERN	HERBACEOUS	Iris germanica - "Lirio"	7/m ²
		Calceolaria thysiflora - "Topa-topa"	10/m ²
		Buscus hypophyllum - "Ruscus"	7/m ²
C PATTERN	GRAMINEAS	Pennisetum setaceum - "Pennisetum"	6/m ²
		Pennisetum alopecuroides - "Pennisetum"	6/m ²
D PATTERN	FLOOR COVER	Mesembryanthemum nodiflorum	5/m ²
		Carpobrotus aequilatus - "Doca"	5/m ²
E PATTERN	FLOOR COVER	Cenastium fomentosum - "Cerasio"	10/m ²
		Syntherisma graminoides - "Sisinchum azul"	8/m ²
F PATTERN	GRAMINEAS - STIPAS	Festuca glauca - "Festuca"	6/m ²
		Stipa tenuissima - "Stipa"	3/m ²
		Stipa caudata - "Pasto puma"	4/m ²
G PATTERN	GRAMINEAS - STIPAS	Stipa caudata - "Pasto puma"	4/m ²
		Carex comans - "Bronze"	4/m ²



- URBAN TREES (ACER NEGUNDO + PRUNUS CERASIFERA)
- CROSSWALK TO THE PARK
- TRAILS MEASURE 2.5 METERS, FOOTPRINT MEASURE 30 CM WIDTH
- FOOTPRINTS PODOTACTILE ZONE
- MAICILLO AREAS
- BOUNDARIES OF LAWN (GRASS)
- VIEWPOINTS ZONE + SEATS
- CANAL SAN CARLOS
- MEMORIALS (CORTEN STEEL BLOCKS)
- THE BIKEWAY IS 3 METERS WIDTH, BIKEWAY



SPATIAL - FUNCTIONAL CRITERIA

- The design, infrastructure and equipment will be configured based on the universal accessibility as a priority in the park, so that it allows users to free room, access and permanence along with enhancing the views of each area.
- Use of noble materials and transparencies in the infrastructure and design of walkways, trails and contemplative areas.
- On walkways, handrails with transparent elements will be used so as not to obstruct the views towards the park and the canal.
- Design interventions will be made in the sectors that have the problems found in the analysis and diagnosis.
- All intervention will recreate and prioritize the colors that are present in the landscape of the place.
- All existing structures and equipment will be restored/replaced to match the project criteria.
- Each intervened space will have a story to tell about the history of the place or events that have taken place on specific sectors of the route.

ENVIRONMENTAL CRITERIA

- Conservation of plant species in good condition
- Increase the % of native vegetation to improve the maintenance and hydric consumption.
- Vegetable restitution will be made under the gradual succession of species, prioritizing critical areas.
- Encourage the transit of various birds, nesting areas and prey monitoring through localized plantations of free species in key sectors and infrastructure such as inkeepers and feeders.
- Equipment that favors the recycling and deposit of garbage in areas stipulated for waste will be proposed.



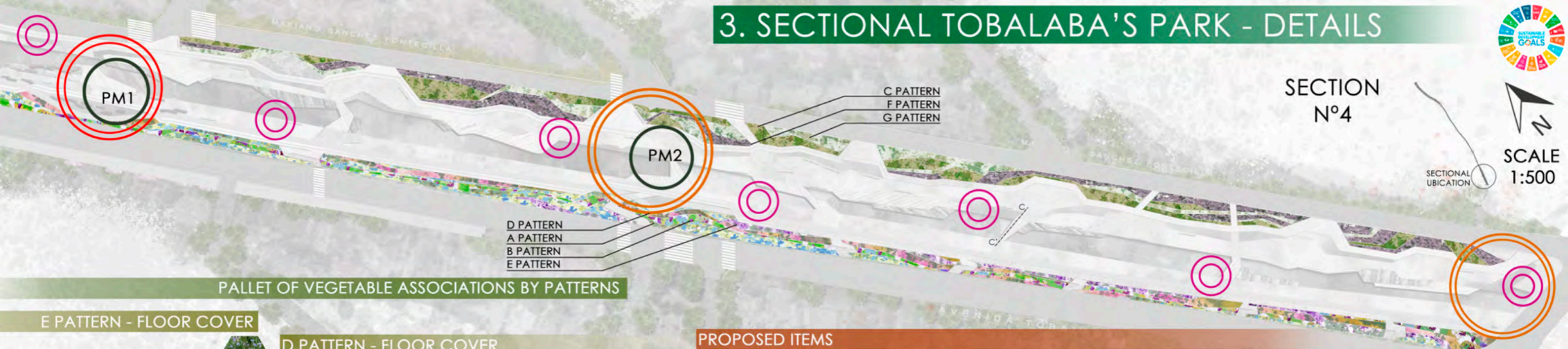
3. SECTIONAL TOBALABA'S PARK - DETAILS



SECTION N°4



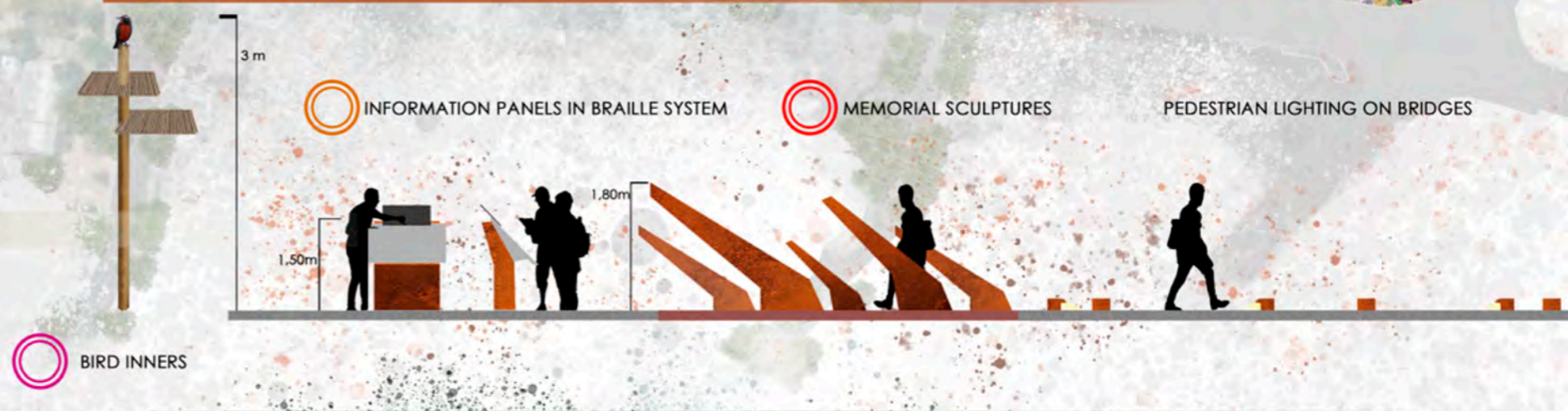
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PALLET OF VEGETABLE ASSOCIATIONS BY PATTERNS

E PATTERN - FLOOR COVER <ul style="list-style-type: none"> <i>Cenastium tomentosum</i> 10/m² <i>Sisyrinchium graminoides</i> 8/m² 	D PATTERN - FLOOR COVER <ul style="list-style-type: none"> <i>Mesembryanthemum nodiflorum</i> 5/m² <i>Carpobrotus aequilaterus</i> 5/m²
B PATTERN - HERBACEOUS <ul style="list-style-type: none"> <i>Iris germanica</i> 7/m² <i>Ruscus hypophyllum</i> 7/m² <i>Calceolaria thyrsoiflora</i> 10/m² 	A PATTERN - HERBACEOUS <ul style="list-style-type: none"> <i>Glandubria berterii</i> 10/m² <i>Libertia chilensis</i> 3/m² <i>Calceolaria thyrsoiflora</i> 10/m²
C PATTERN - GRAMINEAS <ul style="list-style-type: none"> <i>Pennisetum setaceum</i> 6/m² <i>Pennisetum alopecuroides</i> 6/m² 	F PATTERN - GRAMINEAS - STIPAS <ul style="list-style-type: none"> <i>Festuca glauca</i> 6/m² <i>Stipa tenuissima</i> 3/m²
G PATTERN - STIPAS <ul style="list-style-type: none"> <i>Stipa caudata</i> 4/m² <i>Carex comans</i> 4/m² 	

PROPOSED ITEMS



PHOTOMONTAGES



PROPOSED BRIDGES (LONGITUDINAL SECTION C-C')

