

106 / LANDSCAPE ARCHITECTURE MAGAZINE APR 2018 4PR 2018 / 107



nant typology is the single-family SWA's first phase

(UDEM).

is his local collaborator.

IEGO GONZALEZ was driving UDEM demarks San Pedro's nar- The campus's problems reiterate through San Pedro Garza Garrow western border, at a point where Monterrey's sprawling urban form cía, the poshest municipality in lateral ridges off the soaring Sierra and reliance on cars. Nearly half of metropolitan Monterrey, one Madre mountains pinch close to the its 94 acres is surface parking. That of the richest cities in Mexico. Santa Catarina River. West of the consumes centrally located potential "When I was a kid, in the 1970s," he campus, where the valley opens out a building sites and logical axes of cirsaid, gesturing broadly through the bit, a new suburb is being developed; culation. SWA's landscape plan elabowindshield, "all of this was agricul- land prices there have quadrupled in rates upon an earlier master plan tural. I came here hunting rabbits." the past decade. When the university by the architecture and engineering San Pedro is built out now. Its domicampus was first established in 1981, firm Page (formerly Page Souther-"it was in the country," noted Gonzaland Page). Most of the parking will house, and its circulation patterns ex- lez's passenger, René Bihan, FASLA. be relocated to the perimeter; much ist to serve cars, so it's not unlike any "Now they are landlocked. They have of it will go underground. That will late 20th-century North American no choice but to be smart about how free up space for infill construction suburb, except that it has an orthogo- they infill." One of UDEM's smart and connective landscape intervennal grid instead of a dendritic street choices was to hire the firm of which tion. SWA's goal, Bihan said, is placeplan. Also, almost every property is San Francisco-based Bihan is a prin-making that establishes "scale and enclosed within a high security wall. cipal, SWA, to create a landscape masengagement" and uses "regional ex-Gonzalez's destination was the cam- ter plan for the campus. Gonzalez, pression." Those qualities should well pus of the University of Monterrey whose Monterrey firm is Prohabitat, distinguish the experience of UDEM from that of the rest of the city.



LEGEND

- - Master plan scope Gate of Creation project site

The plan will rely on native spe- with the 'Home Depot landscape,' fins have an almost kinetic quality, cies, in relaxed sweeps of grasses which is kind of this curator of the as if they are just breaking through and groves of trees, for example, to British landscape across the entire the earth's crust right now. replace what's there—"lawns, and globe—boxwood, roses, privet.") And gardening with little shrubs and the SWA plan will acknowledge the The first expression of the SWA flowers," as Gonzalez characterized magnificent setting. The valley floor plan has been put in place. It's the it. (Bihan said drily, "It's interesting, is canted. The campus slopes an avlandscape surrounding the Cenfor a city like this, that they identify erage of 10 percent from top to bot- tro Roberto Garza Sada (CRGS),



ABOVE

In this aerial view from the west, the area surrounding the Centro Roberto Garza Sada is in red.

Native grasses and informal groves of trees are a central motif of the planting approach.

tom; no matter where you stand, there's a view. Just a mile and a half to the south, the escarpment of the Sierra Madre shoots up 1,000 meters over the bottom of the valley. Two and a half miles north, across the river, rises the even higher wall of the Cerro de las Mitras. Formed by tectonic uplift, not volcanism, these vertiginously steep exposed limestone

ABOVE

has softened the campus and made it kinder to pedestrians.

LANDSCAPE ARCHITECTURE MAGAZINE APR 2018 / 109 108 / LANDSCAPE ARCHITECTURE MAGAZINE APR 2018



Creation," which sounds grandiose, overwhelming. but once you observe the studios up-

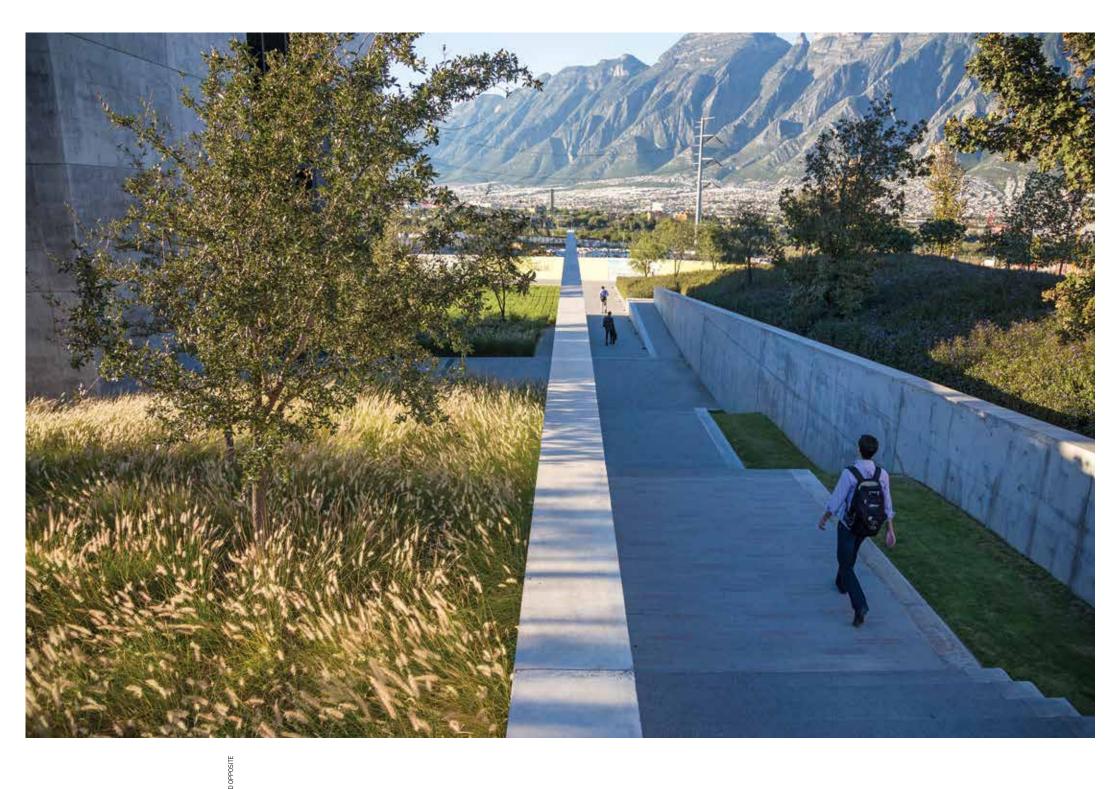
a monumental 2013 building deprojects and sculptures. The arch signed by Tadao Ando that houses frames dramatic vistas, but it also the university's design faculties. The delimits them. It shades you from building is a long concrete slab, slit Monterrey's intense sunlight. And with narrow ribbon windows and the softness and seeming randomcut out underneath to form a low ness of the planting, a foretaste of arch whose undersides are tightly what is envisioned as a predomipleated and oppositionally angled. nant treatment for the campus, is It has a massive, sharp-edged qual- a humanizing response to both the ity similar to that of the mountains. building and the surrounding topog-(The CRGS is also called the "Gate of raphy, which together verge on the

stairs where young people are busy The next effort toward implement- pus. Located where a boulevard learning things like graphic, inte- ing the campus landscape master forms the campus boundary, it rior, textile, and industrial design, plan is immediately adjacent: a plaza incorporates a drop-off zone and it seems less so.) Surrounding the between the CRGS and a new stubuilding and flowing beneath the dent center currently under constudent center is being built over a arch are soft swaths of vegetation struction. This project embodies parking deck sunk into the slope; and a rather intimate plaza where many of the complexities inherent vehicles will enter it on the other, students display their architecture in transforming the UDEM cam- downhill side.) At the plaza level,

university community. And that's purpose of extorting ransom.)

the new building—actually, a cluster a challenge, because access to the "The tricky thing is where you draw of pavilions looking more like a bit campus, as to many places in Mon-the security line," Bihan said. Plus, of of a village than a single building— terrey, is controlled. (Security is an course, the aesthetics of that barrier. will include retail spaces such as issue in the region because of drug SWA came up with a visually porous restaurants, a bookstore, and a bar-trafficking but also, and especially in fence design, the elements of which ber shop. These will be accessible this affluent part of the city, because actually but subtly form the letters of to both the general public and the of opportunistic kidnappings for the the acronym UDEM. Finished in a

shiny goldenrod hue, it's distinctive,



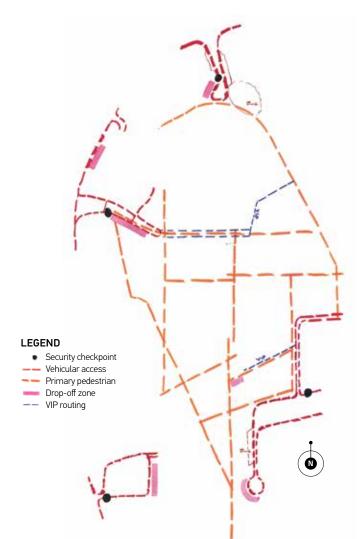
ABOVE

Tucked between walls. this staircase alongside the Centro Roberto Garza Sada offers intimacy amid the dramatic topography.

OPPOSITE

The valley is framed by soaring, finlike ridges.

CIRCULATION DIAGRAM



MASTER PLAN SKETCH

and has the virtue of not pretending installed at one of the it isn't there. "In the United States existing campus enwhen you design something like that, tries. "It looks like they specialty construction, a contractor haven't given up." does shop drawings, you review those drawings, there are several levels of The sloping terrain is another chalthe ground plane, with a thin water refinement. Here they just build it. lenge for the plaza, as for the entire The first version of that fencing was campus. In this spot, "the topograa disaster, too heavy, and not sized phy is moving in two directions." this landscape move that works as an properly for the gates," he said. But on The plaza's signal gesture is an oval amphitheater if they want to stage this site visit, he noted with satisfac- berm, 84 by 57 meters in plan, rising the plaza, with the mountains as a

tion that a version had been recently to six meters at its peak. "The idea is backdrop." Depending on an event's

It's complemented by a fountain 18 meters in diameter, flush with skin. The plaza "is bookended by two beautiful buildings, and then there's

you're mitigating the topography," Bihan explained. "It's also to give a big landscape presence."

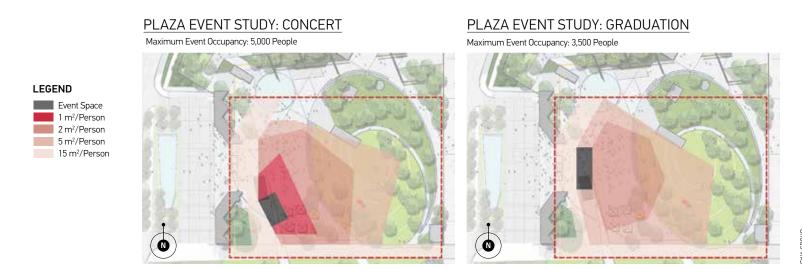
LEGEND --- MASTER PLAN SCOPE GATE OF CREATION PROJECT SITE **PLAN** 1 CENTRO ROBERTO GARZA SADA PROJECT AREA 2 ENTRY PLAZA 3 INTEGRATION ZONE 4 FUTURE EVENT LAWN 5 FUTURE SPORTS FIELDS 6 STUDENT HOUSING 7 HIGH SCHOOL LANDSCAPE ARCHITECTURE MAGAZINE APR 2018 / 113

ABOVE

Early concept drawings of circulation (left) and the campus master plan (right).

ENTRY PLAZA CIRCULATION LEGEND ──→ Vehicular circulation • • • • Public circulation ♦=> Secure circulation Secure perimeter Pedestrian entry 0 Vehicular entry

THE PLAZA'S SIGNATURE GESTURE IS AN OVAL BERM, TO MITIGATE THE COMPLEX TOPOGRAPHY AND "GIVE A BIG LANDSCAPE PRESENCE."



ENTRY PLAZA RENDERING



configuration, with the fountain Bilbao, the architect of the new stutain, planted plots, and the cluster of sometimes the architects rule." pavilions, "it's composed," he said. "But it's very large-scaled."

drained, the plaza could accommodent center, had done the home of landscape architecture. "She's a good date 5,000. "And it also works on a another. "That creates a personal architect. There's a storyline there. But more garden scale, as it faces into the bond, over the years," Bihan said. it doesn't translate into public space," university." With fence, gates, foun- "The donor picks the architect. And

concept. "The old plan was more to the sky, slicing in several directions UDEM is a private institution that conventional, a building on top of a through the oval berm—treating the ABOVE receives major support from sev-podium. Tatiana's improvement was berm as a simple landform more than eral prominent Monterrey families, wrapping its edge" with the more a functional element with programwhose members occupy powerful dispersed ensemble of the pavilions. matic purposes. roles on university boards. In its "What it does is much better," Bihan current effort to re-create the cam- said. But SWA had designed the plaza This reliance on deep-pocket do- left, and the "Gate pus, the university is leaning toward earlier, concurrently with the Ando nors funding high-visibility build- of Creation." showcase buildings by famous archibuilding's planning; construction ings has another, surely unintendtects. This creates another particular documents were complete. Modificated, consequence: Other elements of the particular documents were complete. Modificated, consequence: Other elements of the particular documents were complete. set of conditions. Tadao Ando, the tions to long-term projects must be the plan can become deprioritized. architect of the CRGS, had designed taken in stride, of course. And Bilbao's For example, at the southern, uphill 5,000 people for the home of one such donor. Tatiana concern—or, perhaps, sensibility— point of the campus is UDEM's special events.

Bihan said. Bilbao's design didn't address the grading issues. At one point, she proposed a recessed exit corridor Bilbao's design replaced an earlier from the underground garage, open

The plaza "is bookended by two beautiful buildings, the student center's cluster of pavilions,

The plaza can accommodate up to



graduated triangular lawns.

preparatory high school. It used to The tunnel was completed in 2008. be separated from the rest of the The landscape plan was completed campus by a road. The Page plan in 2011. But the integration zone, a landscape."

the atrium of the Rectoría, UDEM's they were building the tunnel, sink- "In Mexico, people are not interprominent administration building the road. But then for whatever ested in investing in landscape. They ing. In the integration zone, a ser reason they never completed this just build a building and don't have quence of smaller paths will zigzag part. I think it probably has to do landscape around it," Gonzalez said. between these two axes, addressing with funding. If there's not a build- Only one university in the country the grade change to provide univering to amortize the cost of the site offers a landscape architecture desal access and creating a chain of work, it's very hard to fund-raise for gree, "so you don't have landscape architects being trained." In that con-

text, UDEM's engagement with land- the new plaza's programming and grading makes it functional, and but exemplary.

scape architecture in its long-range design elements will introduce the it's also very expensive and difficult planning may be not only laudable animation and sense of place that to do here. When they're doing it is currently lacking, and perhaps piecemeal, it's not like doing an enit will spur the overall project on- tire district," Bihan said. "The thing The ambitious reconfiguring of ward. Given the terrain, though, I'm concerned most about is that an entire campus can't be accom- delay implies a particular risk. "The they're going to give up on the gradplished in a single stroke. It is hoped planting makes it humane, but the ing plan." He added, "If they don't



proposed depressing the roadway though identified as part of the plan's and creating a broad land bridge first phase, remains a blank. Impleon top. SWA's concept for this "in- mentation there is to be directed by tegration zone" is a walkway on an Gonzalez. "They asked me a while axis from the high school's main ago, can't you put a little something entrance, down the slope, right unthere?" he mentioned to Bihan, "so der the arch of the CRGS and into I said, uh, what about following the entry plaza. Another walkway the master plan?" Bihan replied, "I will lead down from the high school thought this would be the first projinto the campus's center on a line to ect to go because when we started,

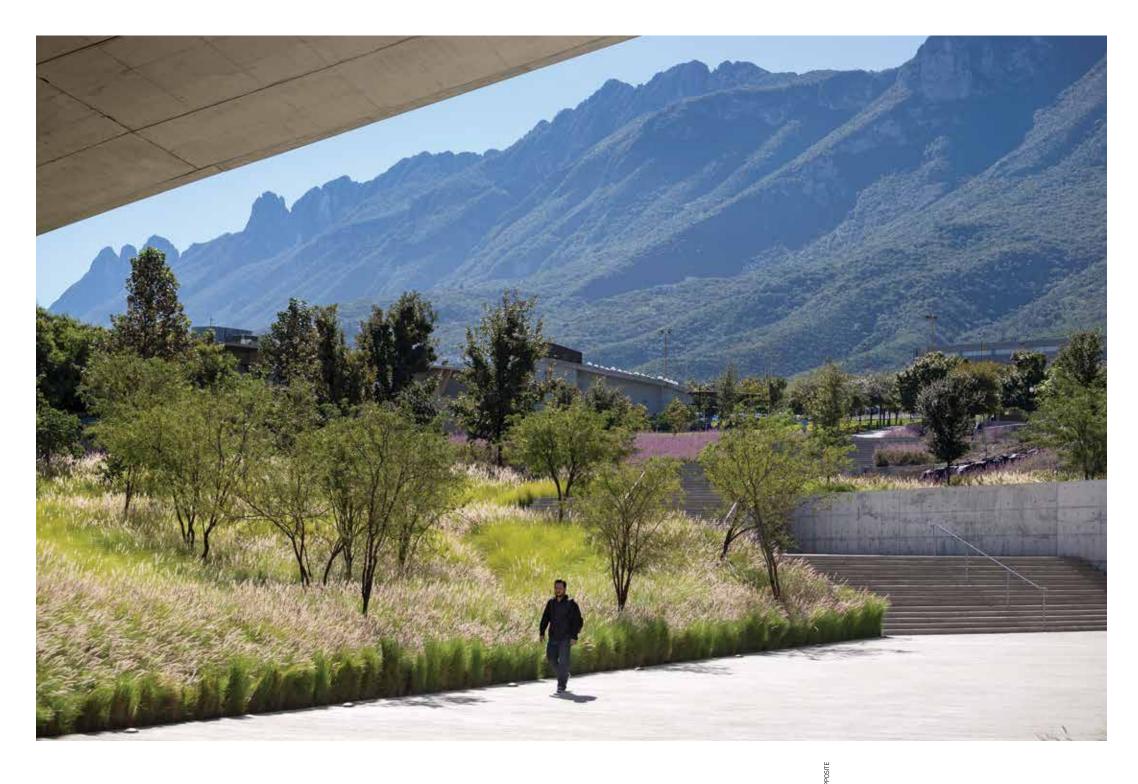


ABOVE

SWA's goals are "scale and engagement," "regional expression," and pedestrian culture.

OPPOSITE

The architectural monumentality of the CRGS is balanced by the naturalism of its plantings.





ABOVE

Native species such as velvet mesquite reunify the campus with its setting.

OPPOSITE

Intimate spaces balance the terrain's magnitude.

get this right, then the master plan where walking is discouraged by urand safer enclaves of San Pedro and will never work. You'd always have ban form, perhaps by culture—and the new suburb west of UDEM bethese jarring interruptions."

Even if the plan is fully and perfectly than it was a few years ago, though densely with town houses, apartrealized, there will be the irony of it must mean something that U.S. ment complexes, and mixed-use it having created a pedestrianized, government personnel are still re-nodes, though its neighborhoods human-scale island in a metropolis quired to stay within the upscale are mostly gated. "The city is ex-

by danger. People in Monterrey say tween 1:00 a.m. and 6:00 a.m. That that the security situation is less dire suburb is being developed relatively tending toward this direction, grow- we were first doing the master plan ing very fast," says the UDEM archiit was, 'It has to be bombproof.' If tecture professor Roberto Pasini. He someone can drive a car through it, brings the master plan and campus that's not good enough," Bihan said. design issues into his studio cur- "It also shows why master plans need ricula so that students can "envision" to be flexible—and it's a barometer its projection toward the outside, of improved conditions, the fact that that it becomes a relevant compo- we're even talking about it." •

nent of the city. You need some kind Jonathan Lerner is the author of the of physical interface, which should not be just a fence. Probably the fact of having certain urban context all around will facilitate the reduction of security measures."

At the least, that's a reasonable pedagogical challenge, and students' imaginations should be encouraged. What would it look like to open up the campus, even incrementally? "When 1960S MEMOIR SWORDS IN THE HANDS OF CHILDREN: REFLECTIONS OF AN AMERICAN REVOLUTIONARY.

Project Credits

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